

# Safety Data Sheet

acc. to OSHA HCS

Printing date 04/26/2022

Reviewed on 04/26/2022

## 1 Identification

- **Product identifier**
- **Trade name:** ETHYLENE DICHLORIDE
- **Article number:** 13250, 13251
- **CAS Number:**  
107-06-2
- **EC number:**  
203-458-1
- **Index number:**  
602-012-00-7
- **Application of the substance / the mixture** Laboratory chemicals
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Electron Microscopy Sciences  
1560 Industry Road  
USA-Hatfield, PA 19440  
Tel: 215-412-8400 Fax: 215-412-8450  
email: info@emsdiasum.com  
www.emsdiasum.com
- **Information department:** Product safety department
- **Emergency telephone number:**  
ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887

## 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

Flammable Liquids 2

H225 Highly flammable liquid and vapor.



GHS08 Health hazard

Carcinogenicity 1B

H350 May cause cancer.



GHS07

Acute Toxicity - Oral 4

H302 Harmful if swallowed.

Skin Irritation 2

H315 Causes skin irritation.

Eye Irritation 2A

H319 Causes serious eye irritation.

Specific Target Organ Toxicity - Single Exposure 3 H335 May cause respiratory irritation.

- **Label elements**
- **GHS label elements** The substance is classified and labeled according to the Globally Harmonized System (GHS).

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· **Hazard pictograms**

GHS02   GHS07   GHS08

· **Signal word** *Danger*· **Hazard statements***Highly flammable liquid and vapor.**Harmful if swallowed.**Causes skin irritation.**Causes serious eye irritation.**May cause cancer.**May cause respiratory irritation.*· **Precautionary statements***Obtain special instructions before use.**Do not handle until all safety precautions have been read and understood.**Keep away from heat/sparks/open flames/hot surfaces. - No smoking.**Ground/bond container and receiving equipment.**Use explosion-proof electrical/ventilating/lighting/equipment.**Use only non-sparking tools.**Take precautionary measures against static discharge.**Avoid breathing dust/fume/gas/mist/vapors/spray**Wash thoroughly after handling.**Do not eat, drink or smoke when using this product.**Use only outdoors or in a well-ventilated area.**Wear protective gloves/protective clothing/eye protection/face protection.**If swallowed: Call a poison center/doctor if you feel unwell.**Rinse mouth.**If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.**IF INHALED: Remove person to fresh air and keep comfortable for breathing.**If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.**Continue rinsing.**IF exposed or concerned: Get medical advice/attention.**Specific treatment (see on this label).**Take off contaminated clothing and wash it before reuse.**If skin irritation occurs: Get medical advice/attention.**If eye irritation persists: Get medical advice/attention.**In case of fire: Use CO<sub>2</sub>, powder or water spray to extinguish.**Store in a well-ventilated place. Keep container tightly closed.**Store in a well-ventilated place. Keep cool.**Store locked up.**Dispose of contents/container in accordance with local/regional/national/international regulations.*· **Classification system:**· **NFPA ratings (scale 0 - 4)***Health = 2**Fire = 3**Reactivity = 0*

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- **HMIS-ratings (scale 0 - 4)**

HEALTH	*2	Health = *2
FIRE	3	Fire = 3
REACTIVITY	0	Reactivity = 0

- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### 3 Composition/information on ingredients

- **Chemical characterization: Substances**
- **CAS No. Description**  
107-06-2 ETHYLENE DICHLORIDE
- **Identification number(s)**
- **EC number:** 203-458-1
- **Index number:** 602-012-00-7

### 4 First-aid measures

- **Description of first aid measures**
- **General information:**  
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- **After inhalation:** In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** Immediately call a doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**  
Dilute with plenty of water.

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- Do not allow to enter sewers/ surface or ground water.*
- **Methods and material for containment and cleaning up:**
  - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).*
  - Dispose contaminated material as waste according to item 13.*
  - Ensure adequate ventilation.*
- **Reference to other sections**
  - See Section 7 for information on safe handling.*
  - See Section 8 for information on personal protection equipment.*
  - See Section 13 for disposal information.*
- **Protective Action Criteria for Chemicals**
  - **PAC-1:** 50 ppm
  - **PAC-2:** 200 ppm
  - **PAC-3:** 300 ppm

## 7 Handling and storage

- **Handling:**
  - **Precautions for safe handling** *Open and handle receptacle with care.*
  - **Information about protection against explosions and fires:**
    - Keep ignition sources away - Do not smoke.*
    - Protect against electrostatic charges.*
    - Keep respiratory protective device available.*
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
  - **Requirements to be met by storerooms and receptacles:** *Store in a cool location.*
  - **Information about storage in one common storage facility:** *Not required.*
  - **Further information about storage conditions:**
    - Keep receptacle tightly sealed.*
    - Store in cool, dry conditions in well sealed receptacles.*
- **Specific end use(s)** *No further relevant information available.*

## 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** *No further data; see item 7.*
- **Control parameters**

· **Components with limit values that require monitoring at the workplace:**

### 107-06-2 ETHYLENE DICHLORIDE

PEL	<i>Long-term value: 50 ppm</i> <i>Ceiling limit value: 100; 200* ppm</i> <i>*5-min peak in any 3 hrs</i>
REL	<i>Short-term value: 8 mg/m<sup>3</sup>, 2 ppm</i> <i>Long-term value: 4 mg/m<sup>3</sup>, 1 ppm</i> <i>See Pocket Guide Apps. A and C</i>
TLV	<i>Long-term value: 10 ppm</i> <i>A4</i>

- **Additional information:** *The lists that were valid during the creation were used as basis.*

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Trade name: **ETHYLENE DICHLORIDE**

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- **Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes and skin.

- **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Tightly sealed goggles

## 9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

**Form:** Oily

**Color:** Colorless

- **Odor:** Pleasant

- **Odor threshold:** Not determined.

- **pH-value:** Not determined.

- **Change in condition**

**Melting point/Melting range:** -35.5 °C (-31.9 °F)

**Boiling point/Boiling range:** 83.5 °C (182.3 °F)

- **Flash point:** 13 °C (55.4 °F)

- **Flammability (solid, gaseous):** Not flammable.

- **Ignition temperature:** 413-440 °C (775.4-824 °F)

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· <b>Decomposition temperature:</b>	Not determined.
· <b>Auto igniting:</b>	Not determined.
· <b>Danger of explosion:</b>	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· <b>Explosion limits:</b>	
Lower:	6.2 Vol %
Upper:	15.9 Vol %
· <b>Vapor pressure at 20 °C (68 °F):</b>	87 hPa (65.3 mm Hg)
· <b>Density at 20 °C (68 °F):</b>	1.24 g/cm <sup>3</sup> (10.3478 lbs/gal)
· <b>Relative density</b>	Not determined.
· <b>Vapor density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with Water at 20 °C (68 °F):</b>	8 g/l
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity:</b>	
Dynamic at 20 °C (68 °F):	0.8 mPas
Kinematic:	Not determined.
· <b>Other information</b>	No further relevant information available.

## 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

### · **LD/LC50 values that are relevant for classification:**

Oral	LD50	670 mg/kg (rat)
Dermal	LD50	2,800 mg/kg (rat)

- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
- **Carcinogenic categories**
- **IARC (International Agency for Research on Cancer) 2B**
- **NTP (National Toxicology Program) R**

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· **OSHA-Ca (Occupational Safety Health Administration)** Substance is not listed.


## 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
*Water hazard class 3 (Assessment by list): extremely hazardous for water  
 Do not allow product to reach ground water, water course or sewage system, even in small quantities.  
 Danger to drinking water if even extremely small quantities leak into the ground.*
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

## 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**  
*Must not be disposed of together with household garbage. Do not allow product to reach sewage system.*
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

## 14 Transport information

- |   |                                       |
|---|---------------------------------------|
| <b>UN-Number</b>  | UN1184                                |
| <b>DOT, ADR, IMDG, IATA</b>   |                                       |
| <b>UN proper shipping name</b>  | Ethylene dichloride                   |
| <b>DOT</b>  | 1184 ETHYLENE DICHLORIDE              |
| <b>ADR</b>  | ETHYLENE DICHLORIDE, MARINE POLLUTANT |
| <b>IMDG</b>   | ETHYLENE DICHLORIDE                   |
| <b>IATA</b>   | ETHYLENE DICHLORIDE                   |
| <b>Transport hazard class(es)</b>   |                                       |
| <b>DOT</b>  |                                       |
|  |                                       |
| <b>Class</b>  | 3 Flammable liquids                   |

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· <b>Label</b>	3, 6.1
· <b>ADR</b>	
	
· <b>Class</b>	3 Flammable liquids
· <b>Label</b>	3+6.1
· <b>IMDG</b>	
	
· <b>Class</b>	3 Flammable liquids
· <b>Label</b>	3/6.1
· <b>IATA</b>	
	
· <b>Class</b>	3 Flammable liquids
· <b>Label</b>	3 (6.1)
· <b>Packing group</b>	
· <b>DOT, ADR, IMDG, IATA</b>	II
· <b>Environmental hazards:</b>	
· <b>Marine pollutant:</b>	Yes (DOT) Symbol (fish and tree)
· <b>Special precautions for user</b>	Warning: Flammable liquids
· <b>Hazard identification number (Kemler code):</b>	336
· <b>EMS Number:</b>	F-E, S-
· <b>Segregation groups</b>	Liquid halogenated hydrocarbons
· <b>Stowage Category</b>	B
· <b>Stowage Code</b>	SW2 Clear of living quarters.
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>DOT</b>	
· <b>Quantity limitations</b>	On passenger aircraft/rail: 1 L On cargo aircraft only: 60 L
· <b>Hazardous substance:</b>	100 lbs, 45.4 kg
· <b>Remarks:</b>	Special marking with the symbol (fish and tree).
· <b>ADR</b>	
· <b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

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- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>· <b>IMDG</b></li> <li>· <b>Limited quantities (LQ)</b></li> <li>· <b>Excepted quantities (EQ)</b></li> </ul> | <p style="margin-left: 20px;"><i>IL</i></p> <p style="margin-left: 20px;">Code: E2</p> <p style="margin-left: 20px;"><i>Maximum net quantity per inner packaging: 30 ml</i></p> <p style="margin-left: 20px;"><i>Maximum net quantity per outer packaging: 500 ml</i></p> |
| <ul style="list-style-type: none"> <li>· <b>UN "Model Regulation":</b></li> </ul>  | <p style="margin-left: 20px;"><i>UN 1184 ETHYLENE DICHLORIDE, 3 (6.1), II</i></p>   |

## 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**
- **Section 355 (extremely hazardous substances):** Substance is not listed.
- **Section 313 (Specific toxic chemical listings):** Substance is listed.
- **TSCA (Toxic Substances Control Act):** ACTIVE
- **Hazardous Air Pollutants** Substance is listed.
- **Proposition 65**
- **Chemicals known to cause cancer:** Substance is listed.
- **Chemicals known to cause reproductive toxicity for females:** Substance is not listed.
- **Chemicals known to cause reproductive toxicity for males:** Substance is not listed.
- **Chemicals known to cause developmental toxicity:** Substance is not listed.
- **Carcinogenic categories**
- **EPA (Environmental Protection Agency) B2**
- **TLV (Threshold Limit Value) A4**
- **NIOSH-Ca (National Institute for Occupational Safety and Health)** Substance is listed.
- **GHS label elements** The substance is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS02   GHS07   GHS08

- **Signal word** *Danger*
- **Hazard statements**
  - Highly flammable liquid and vapor.*
  - Harmful if swallowed.*
  - Causes skin irritation.*
  - Causes serious eye irritation.*
  - May cause cancer.*
  - May cause respiratory irritation.*
- **Precautionary statements**
  - Obtain special instructions before use.*
  - Do not handle until all safety precautions have been read and understood.*
  - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.*
  - Ground/bond container and receiving equipment.*
  - Use explosion-proof electrical/ventilating/lighting/equipment.*
  - Use only non-sparking tools.*
  - Take precautionary measures against static discharge.*
  - Avoid breathing dust/fume/gas/mist/vapors/spray*
  - Wash thoroughly after handling.*
  - Do not eat, drink or smoke when using this product.*

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**Trade name: ETHYLENE DICHLORIDE**

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*Use only outdoors or in a well-ventilated area.*

*Wear protective gloves/protective clothing/eye protection/face protection.*

*If swallowed: Call a poison center/doctor if you feel unwell.*

*Rinse mouth.*

*If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.*

*IF INHALED: Remove person to fresh air and keep comfortable for breathing.*

*If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.*

*Continue rinsing.*

*IF exposed or concerned: Get medical advice/attention.*

*Specific treatment (see on this label).*

*Take off contaminated clothing and wash it before reuse.*

*If skin irritation occurs: Get medical advice/attention.*

*If eye irritation persists: Get medical advice/attention.*

*In case of fire: Use CO<sub>2</sub>, powder or water spray to extinguish.*

*Store in a well-ventilated place. Keep container tightly closed.*

*Store in a well-ventilated place. Keep cool.*

*Store locked up.*

*Dispose of contents/container in accordance with local/regional/national/international regulations.*

· **National regulations:**

· **Information about limitation of use:**

*Workers are not allowed to be exposed to this hazardous material. Exceptions can be made by the authorities in certain cases.*

· **Chemical safety assessment:** *A Chemical Safety Assessment has not been carried out.*

## 16 Other information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

· **Contact:**

· **Date of preparation / last revision** 04/26/2022 / -

· **Abbreviations and acronyms:**

*ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)*

*IMDG: International Maritime Code for Dangerous Goods*

*DOT: US Department of Transportation*

*IATA: International Air Transport Association*

*EINECS: European Inventory of Existing Commercial Chemical Substances*

*CAS: Chemical Abstracts Service (division of the American Chemical Society)*

*NFPA: National Fire Protection Association (USA)*

*HMIS: Hazardous Materials Identification System (USA)*

*LC50: Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*

*PBT: Persistent, Bioaccumulative and Toxic*

*vPvB: very Persistent and very Bioaccumulative*

*NIOSH: National Institute for Occupational Safety*

*OSHA: Occupational Safety **Health***

**TLV: Threshold Limit Value**

**PEL: Permissible Exposure Limit**

**REL: Recommended Exposure Limit**

**Flammable Liquids 2: Flammable liquids – Category 2**

**Acute Toxicity - Oral 4: Acute toxicity – Category 4**

**Skin Irritation 2: Skin corrosion/irritation – Category 2**

**Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A**

**Carcinogenicity 1B: Carcinogenicity – Category 1B**

**Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3**

# Safety Data Sheet

according to WHS Regulations

Printing date 26.04.2022

Revision: 26.04.2022

## 1 Identification

· **Product identifier**

· **Trade name:** ETHYLENE DICHLORIDE

· **Article number:** 13250, 13251

· **CAS Number:**

107-06-2

· **EC number:**

203-458-1

· **Index number:**

602-012-00-7

· **Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.

· **Application of the substance / the mixture** Laboratory chemicals

· **Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

Electron Microscopy Sciences

1560 Industry Road

USA-Hatfield, PA 19440

Tel: 215-412-8400 Fax: 215-412-8450

email: [info@emsdiasum.com](mailto:info@emsdiasum.com)

[www.emsdiasum.com](http://www.emsdiasum.com)

ProSciTech Pty Ltd

11 Carlton Street, Kirwan QLD 4817 Australia

Telephone Number: (07) 4773 9444 - 8:30am - 5:00pm, Monday to Friday (excluding Public Holidays)

Emergency Contact: (07) 4773 9444 - 8:30am - 5:00pm, Monday to Friday (excluding Public Holidays)

Website: [ems.proscitech.com](http://ems.proscitech.com)

Emgrid Australia Pty. Ltd.

P.O. Box 118

The Patch VIC 3792

Australia

Tel: 03 9752 1785

Fax: 03 9752 1784

Website: [www.emgrid.com.au](http://www.emgrid.com.au)

· **Further information obtainable from:** Product safety department

· **Emergency telephone number:**

ChemTrec 1-800-424-9300 Contract CCN7661

1-703-527-3887

## 2 Hazard(s) Identification

· **Classification of the substance or mixture**



GHS02 flame

Flam. Liq. 2

H225 Highly flammable liquid and vapour.



GHS08 health hazard

Carc. 1B

H350 May cause cancer.

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## Safety Data Sheet according to WHS Regulations

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Revision: 26.04.2022

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GHS07

Acute Tox. 4      H302 Harmful if swallowed.  
 Skin Irrit. 2      H315 Causes skin irritation.  
 Eye Irritation 2A    H319 Causes serious eye irritation.  
 STOT SE 3      H335 May cause respiratory irritation.

- **Label elements**

- **GHS label elements**

The substance is classified and labelled according to the Globally Harmonised System (GHS).

- **Hazard pictograms**



GHS02    GHS07    GHS08

- **Signal word** *Danger*

- **Hazard statements**

*Highly flammable liquid and vapour.*  
*Harmful if swallowed.*  
*Causes skin irritation.*  
*Causes serious eye irritation.*  
*May cause cancer.*  
*May cause respiratory irritation.*

- **Precautionary statements**

*Obtain special instructions before use.*  
*Do not handle until all safety precautions have been read and understood.*  
*Keep away from heat/sparks/open flames/hot surfaces. No smoking.*  
*Ground/bond container and receiving equipment.*  
*Use explosion-proof electrical/ventilating/lighting equipment.*  
*Use only non-sparking tools.*  
*Take precautionary measures against static discharge.*  
*Avoid breathing dust/fume/gas/mist/vapours/spray.*  
*Wash thoroughly after handling.*  
*Do not eat, drink or smoke when using this product.*  
*Use only outdoors or in a well-ventilated area.*  
*Wear protective gloves/protective clothing/eye protection/face protection.*  
*IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.*  
*Rinse mouth.*  
*IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.*  
*IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.*  
*IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.*  
*Continue rinsing.*  
*IF exposed or concerned: Get medical advice/attention.*  
*Specific treatment (see on this label).*  
*Take off contaminated clothing and wash it before reuse.*  
*If skin irritation occurs: Get medical advice/attention.*  
*If eye irritation persists: Get medical advice/attention.*  
*In case of fire: Use CO<sub>2</sub>, powder or water spray for extinction.*  
*Store in a well-ventilated place. Keep container tightly closed.*  
*Store in a well-ventilated place. Keep cool.*

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## Safety Data Sheet according to WHS Regulations

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**Trade name: ETHYLENE DICHLORIDE**

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Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### 3 Composition and Information on Ingredients

- **Chemical characterisation: Substances**
- **CAS No. Description**  
107-06-2 ETHYLENE DICHLORIDE
- **Identification number(s)**
- **EC number:** 203-458-1
- **Index number:** 602-012-00-7

· **SVHC**

107-06-2 ETHYLENE DICHLORIDE

### 4 First Aid Measures

- **Description of first aid measures**
- **General information:**  
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- **After inhalation:** In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** Call for a doctor immediately.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire Fighting Measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

### 6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**  
Dilute with plenty of water.  
Do not allow to enter sewers/ surface or ground water.

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# Safety Data Sheet

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**Trade name: ETHYLENE DICHLORIDE**

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- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### 7 Handling and Storage

- **Handling:**
- **Precautions for safe handling** Open and handle receptacle with care.
- **Information about fire - and explosion protection:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.  
Keep respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Keep container tightly sealed.  
Store in cool, dry conditions in well sealed receptacles.
- **Specific end use(s)** No further relevant information available.

### 8 Exposure controls and personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

**107-06-2 ETHYLENE DICHLORIDE**

WES | Long-term value: 40 mg/m<sup>3</sup>, 10 ppm

- **Additional information:** The lists valid during the making were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Store protective clothing separately.  
Avoid contact with the eyes and skin.
- **Respiratory protection:**  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

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# Safety Data Sheet

## according to WHS Regulations

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Trade name: **ETHYLENE DICHLORIDE**

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· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed goggles

## 9 Physical and Chemical Properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

<b>Form:</b>	Oily
<b>Colour:</b>	Colourless
<b>Odour:</b>	Pleasant
<b>Odour threshold:</b>	Not determined.

· **pH-value:** Not determined.

· **Change in condition**

<b>Melting point/freezing point:</b>	-35.5 °C
<b>Initial boiling point and boiling range:</b>	83.5 °C

· **Flash point:** 13 °C

· **Flammability (solid, gas):** Not applicable.

· **Ignition temperature:** 413-440 °C

· **Decomposition temperature:** Not determined.

· **Auto-ignition temperature:** Not determined.

· **Explosive properties:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· **Explosion limits:**

<b>Lower:</b>	6.2 Vol %
<b>Upper:</b>	15.9 Vol %

· **Vapour pressure at 20 °C:** 87 hPa

· **Density at 20 °C:** 1.24 g/cm<sup>3</sup>

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Trade name: **ETHYLENE DICHLORIDE**

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· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with water at 20 °C:</b>	8 g/l
· <b>Partition coefficient: n-octanol/water:</b>	Not determined.
· <b>Viscosity:</b>	
<b>Dynamic at 20 °C:</b>	0.8 mPas
<b>Kinematic:</b>	Not determined.
· <b>Other information</b>	No further relevant information available.

### 10 Stability and Reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

### 11 Toxicological Information

- **Information on toxicological effects**
- **Acute toxicity**

· **LD/LC50 values relevant for classification:**

Oral	LD50	670 mg/kg (rat)
Dermal	LD50	2,800 mg/kg (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Irritant to skin and mucous membranes.
- **Serious eye damage/irritation** Irritating effect.
- **Respiratory or skin sensitisation** No sensitising effects known.
- **Additional toxicological information:**
- **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**  
Carc. 1B

### 12 Ecological Information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Water hazard class 3 (German Regulation) (Assessment by list): extremely hazardous for water

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Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

· **Waste treatment methods**

· **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packaging:**

· **Recommendation:** Disposal must be made according to official regulations.

· **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### 14 Transport information

· **UN-Number**

· **ADG, IMDG, IATA**

UNI184

· **UN proper shipping name**

· **ADG**

1184 ETHYLENE DICHLORIDE

· **IMDG**

ETHYLENE DICHLORIDE, MARINE POLLUTANT

· **IATA**

ETHYLENE DICHLORIDE

· **Transport hazard class(es)**

· **ADG**



· **Class**

3 Flammable liquids.

· **Label**

3+6.1

· **IMDG**



· **Class**

3 Flammable liquids.

· **Label**

3/6.1

· **IATA**



· **Class**

3 Flammable liquids.

· **Label**

3 (6.1)

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Trade name: **ETHYLENE DICHLORIDE**

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· <b>Packing group</b> · <b>ADG, IMDG, IATA</b>	II
· <b>Environmental hazards:</b> · <b>Marine pollutant:</b>	Yes (DOT) Symbol (fish and tree)
· <b>Special precautions for user</b> · <b>Hazard identification number (Kemler code):</b> · <b>EMS Number:</b> · <b>Segregation groups</b> · <b>Stowage Category</b> · <b>Stowage Code</b>	Warning: Flammable liquids. 336 F-E, S- Liquid halogenated hydrocarbons B SW2 Clear of living quarters.
· <b>Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>ADG</b> · <b>Limited quantities (LQ)</b> · <b>Excepted quantities (EQ)</b>	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <b>Transport category</b> · <b>Tunnel restriction code</b>	2 D/E
· <b>IMDG</b> · <b>Limited quantities (LQ)</b> · <b>Excepted quantities (EQ)</b>	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <b>UN "Model Regulation":</b>	UN 1184 ETHYLENE DICHLORIDE, 3 (6.1), II

### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Australian Inventory of Industrial Chemicals** Substance is listed.
- **Standard for the Uniform Scheduling of Medicines and Poisons S6**
- **Australia: Priority Existing Chemicals** Substance is not listed.
- **GHS label elements**  
The substance is classified and labelled according to the Globally Harmonised System (GHS).
- **Hazard pictograms**



GHS02 GHS07 GHS08

- **Signal word** Danger
- **Hazard statements**  
Highly flammable liquid and vapour.  
Harmful if swallowed.  
Causes skin irritation.

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**Trade name: ETHYLENE DICHLORIDE**

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*Causes serious eye irritation.*

*May cause cancer.*

*May cause respiratory irritation.*

**· Precautionary statements**

*Obtain special instructions before use.*

*Do not handle until all safety precautions have been read and understood.*

*Keep away from heat/sparks/open flames/hot surfaces. No smoking.*

*Ground/bond container and receiving equipment.*

*Use explosion-proof electrical/ventilating/lighting equipment.*

*Use only non-sparking tools.*

*Take precautionary measures against static discharge.*

*Avoid breathing dust/fume/gas/mist/vapours/spray.*

*Wash thoroughly after handling.*

*Do not eat, drink or smoke when using this product.*

*Use only outdoors or in a well-ventilated area.*

*Wear protective gloves/protective clothing/eye protection/face protection.*

*IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.*

*Rinse mouth.*

*IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.*

*IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.*

*IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.*

*Continue rinsing.*

*IF exposed or concerned: Get medical advice/attention.*

*Specific treatment (see on this label).*

*Take off contaminated clothing and wash it before reuse.*

*If skin irritation occurs: Get medical advice/attention.*

*If eye irritation persists: Get medical advice/attention.*

*In case of fire: Use CO<sub>2</sub>, powder or water spray for extinction.*

*Store in a well-ventilated place. Keep container tightly closed.*

*Store in a well-ventilated place. Keep cool.*

*Store locked up.*

*Dispose of contents/container in accordance with local/regional/national/international regulations.*

**· Directive 2012/18/EU**

**· Named dangerous substances - ANNEX I Substance is not listed.**

**· Seveso category P5c FLAMMABLE LIQUIDS**

**· Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t**

**· Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t**

**· National regulations:**

**· Information about limitation of use:**

*Workers are not allowed to be exposed to this hazardous material. Exceptions can be made by the authorities in certain cases.*

**· Other regulations, limitations and prohibitive regulations**

**· Substances of very high concern (SVHC) according to REACH, Article 57**

107-06-2	ETHYLENE DICHLORIDE
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**· Chemical safety assessment:** *A Chemical Safety Assessment has not been carried out.*

### 16 Other information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

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**Trade name: ETHYLENE DICHLORIDE**

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**· Contact:****· Abbreviations and acronyms:**

*ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)*

*IMDG: International Maritime Code for Dangerous Goods*

*IATA: International Air Transport Association*

*EINECS: European Inventory of Existing Commercial Chemical Substances*

*CAS: Chemical Abstracts Service (division of the American Chemical Society)*

*LC50: Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*

*PBT: Persistent, Bioaccumulative and Toxic*

*SVHC: Substances of Very High Concern*

*vPvB: very Persistent and very Bioaccumulative*

*Flam. Liq. 2: Flammable liquids – Category 2*

*Acute Tox. 4: Acute toxicity – Category 4*

*Skin Irrit. 2: Skin corrosion/irritation – Category 2*

*Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A*

*Carc. 1B: Carcinogenicity – Category 1B*

*STOT SE 3: Specific target organ toxicity (single exposure) – Category 3*

-AU-

# Safety Data Sheet

according to HPR, Schedule 1

Printing date 04/26/2022

Reviewed on 04/26/2022

## 1 Identification

- **Product identifier**
- **Trade name:** ETHYLENE DICHLORIDE
- **Article number:** 13250, 13251
- **CAS Number:**  
107-06-2
- **EC number:**  
203-458-1
- **Index number:**  
602-012-00-7
- **Application of the substance / the mixture** Laboratory chemicals
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Electron Microscopy Sciences  
1560 Industry Road  
USA-Hatfield, PA 19440  
Tel: 215-412-8400 Fax: 215-412-8450  
email: info@emsdiasum.com  
www.emsdiasum.com
- **Information department:** Product safety department
- **Emergency telephone number:**  
ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887

## 2 Hazard identification

- **Classification of the substance or mixture**



GHS02 Flame

Flammable Liquids - Category 2

H225 Highly flammable liquid and vapour.



GHS08 Health hazard

Carcinogenicity - Category 1B

H350 May cause cancer.



GHS07

Acute Toxicity (Oral) - Category 4

H302 Harmful if swallowed.

Skin Irritation - Category 2

H315 Causes skin irritation.

Eye Irritation - Category 2A

H319 Causes serious eye irritation.

Specific Target Organ Toxicity - Single Exposure -  
Category 3

H335 May cause respiratory irritation.

- **Label elements**

- **GHS label elements** The substance is classified and labeled according to the Globally Harmonized System (GHS).

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# Safety Data Sheet

## according to HPR, Schedule 1

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Trade name: **ETHYLENE DICHLORIDE**

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· **Hazard pictograms**· **Signal word** *Danger*· **Hazard statements***Highly flammable liquid and vapour.**Harmful if swallowed.**Causes skin irritation.**Causes serious eye irritation.**May cause cancer.**May cause respiratory irritation.*· **Precautionary statements***Obtain special instructions before use.**Do not handle until all safety precautions have been read and understood.**Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.**Ground and bond container and receiving equipment.**Use explosion-proof [electrical/ventilating/lighting] equipment.**Use non-sparking tools.**Take actions to prevent static discharges.**Avoid breathing dust/fume/gas/mist/vapours/spray.**Wash thoroughly after handling.**Do not eat, drink or smoke when using this product.**Use only outdoors or in a well-ventilated area.**Wear protective gloves/protective clothing/eye protection/face protection.**If swallowed: Call a poison center/doctor if you feel unwell.**Rinse mouth.**IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].**IF INHALED: Remove person to fresh air and keep comfortable for breathing.**IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.**Continue rinsing.**IF exposed or concerned: Get medical advice/attention.**Specific treatment (see on this label).**Take off contaminated clothing and wash it before reuse.**If skin irritation occurs: Get medical advice/attention.**If eye irritation persists: Get medical advice/attention.**In case of fire: Use CO<sub>2</sub>, powder or water spray to extinguish.**Store in a well-ventilated place. Keep container tightly closed.**Store in a well-ventilated place. Keep cool.**Store locked up.**Dispose of contents/container in accordance with local/regional/national/international regulations.*· **Classification system:**· **NFPA ratings (scale 0 - 4)**

Health = 2

Fire = 3

Reactivity = 0

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· **HMIS-ratings (scale 0 - 4)**

HEALTH	*2	Health = *2
FIRE	3	Fire = 3
REACTIVITY	0	Reactivity = 0

### 3 Composition/Information on ingredients

- **Chemical characterization: Substances**
- **CAS No. Description**  
107-06-2 ETHYLENE DICHLORIDE
- **Identification number(s)**
- **EC number: 203-458-1**
- **Index number: 602-012-00-7**

### 4 First-aid measures

- **Description of first aid measures**
- **General information:**  
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- **After inhalation:** In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** Immediately call a doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**  
Dilute with plenty of water.  
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.

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- Ensure adequate ventilation.
- **Reference to other sections**
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

### 7 Handling and storage

- **Handling:**
- **Precautions for safe handling** Open and handle receptacle with care.
- **Information about protection against explosions and fires:**
- Keep ignition sources away - Do not smoke.
- Protect against electrostatic charges.
- Keep respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
- Keep receptacle tightly sealed.
- Store in cool, dry conditions in well sealed receptacles.
- **Specific end use(s)** No further relevant information available.

### 8 Exposure controls/ Personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**

- **Components with limit values that require monitoring at the workplace:**

#### 107-06-2 ETHYLENE DICHLORIDE

EL	STEL: 2 ppm TWA: 1 ppm IARC 2B
EV	TWA: 40 mg/m <sup>3</sup> , 10 ppm

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing.
- Wash hands before breaks and at the end of work.
- Store protective clothing separately.
- Avoid contact with the eyes and skin.
- **Breathing equipment:**
- In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

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Trade name: **ETHYLENE DICHLORIDE**

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· **Protection of hands:**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**

Tightly sealed goggles

### 9 Physical and chemical properties

· **Information on basic physical and chemical properties**· **General Information**· **Appearance:**

<b>Form:</b>	Oily
<b>Color:</b>	Colorless
<b>Odor:</b>	Pleasant
<b>Odor threshold:</b>	Not determined.

· **pH-value:** Not determined.· **Change in condition**

<b>Melting point/Melting range:</b>	-35.5 °C
<b>Boiling point/Boiling range:</b>	83.5 °C

· **Flash point:** 13 °C· **Flammability (solid, gaseous):** Not flammable.· **Ignition temperature:** 413-440 °C· **Decomposition temperature:** Not determined.· **Auto igniting:** Not determined.

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

· **Explosion limits:**

<b>Lower:</b>	6.2 Vol %
<b>Upper:</b>	15.9 Vol %

· **Vapor pressure at 20 °C:** 87 hPa· **Density at 20 °C:** 1.24 g/cm<sup>3</sup>

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- |   |  |
|---|--|
| · <b>Relative density</b>                                 | Not determined.                            |
| · <b>Vapor density</b>                                    | Not determined.                            |
| · <b>Evaporation rate</b>                                 | Not determined.                            |
| · <b>Solubility in / Miscibility with Water at 20 °C:</b> | 8 g/l                                      |
| · <b>Partition coefficient (n-octanol/water):</b>         | Not determined.                            |
| · <b>Viscosity:</b>                                       |  |
| <b>Dynamic at 20 °C:</b>                                  | 0.8 mPas                                   |
| <b>Kinematic:</b>   | Not determined.                            |
| · <b>Other information</b>                                | No further relevant information available. |

### 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

### 11 Toxicological information

- **Information on toxicological effects**
  - **Acute toxicity:**
- |   |      |                   |
|---|------|-------------------|
| · <b>LD/LC50 values that are relevant for classification:</b> |      |                   |
| Oral  | LD50 | 670 mg/kg (rat)   |
| Dermal  | LD50 | 2,800 mg/kg (rat) |
- **Primary irritant effect:**
  - **on the skin:** Irritant to skin and mucous membranes.
  - **on the eye:** Irritating effect.
  - **Sensitization:** No sensitizing effects known.
  - **Additional toxicological information:**
  - **Carcinogenic categories**
  - **IARC (International Agency for Research on Cancer)** 2B
  - **NTP (National Toxicology Program)** R

### 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.

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# Safety Data Sheet

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**Trade name: ETHYLENE DICHLORIDE**

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· **Additional ecological information:**

· **General notes:**

*Water hazard class 3 (Assessment by list): extremely hazardous for water*

*Do not allow product to reach ground water, water course or sewage system, even in small quantities.*

*Danger to drinking water if even extremely small quantities leak into the ground.*

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

· **Waste treatment methods**

· **Recommendation:**

*Must not be disposed of together with household garbage. Do not allow product to reach sewage system.*

· **Uncleaned packagings:**

· **Recommendation:** Disposal must be made according to official regulations.

· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

### 14 Transport information

· **UN-Number**

· **DOT/TDG, ADR, IMDG, IATA**

UN1184

· **UN proper shipping name**

· **DOT/TDG**

Ethylene dichloride

· **ADR**

1184 ETHYLENE DICHLORIDE

· **IMDG**

ETHYLENE DICHLORIDE, MARINE POLLUTANT

· **IATA**

ETHYLENE DICHLORIDE

· **Transport hazard class(es)**

· **DOT/TDG (Transport dangerous goods):**



· **Class**

3 Flammable liquids

· **Label**

3, 6.1

· **ADR**



· **Class**

3 Flammable liquids

· **Label**

3+6.1

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# Safety Data Sheet

according to HPR, Schedule 1

Printing date 04/26/2022

Reviewed on 04/26/2022

Trade name: **ETHYLENE DICHLORIDE**

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· **IMDG**

· **Class** 3 Flammable liquids  
 · **Label** 3/6.1

· **IATA**

· **Class** 3 Flammable liquids  
 · **Label** 3 (6.1)

· **Packing group** II  
 · **DOT/TDG, ADR, IMDG, IATA**

· **Environmental hazards:**  
 · **Marine pollutant:** Yes (DOT)  
 Symbol (fish and tree)

· **Special precautions for user** Warning: Flammable liquids  
 · **Hazard identification number (Kemler code):** 336  
 · **EMS Number:** F-E, S-  
 · **Segregation groups** Liquid halogenated hydrocarbons  
 · **Stowage Category** B  
 · **Stowage Code** SW2 Clear of living quarters.

· **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

· **Transport/Additional information:**

· **DOT/TDG**  
 · **Quantity limitations** On passenger aircraft/rail: 1 L  
 On cargo aircraft only: 60 L  
 · **Hazardous substance:** 100 lbs, 45.4 kg  
 · **Remarks:** Special marking with the symbol (fish and tree).

· **ADR**  
 · **Excepted quantities (EQ)** Code: E2  
 Maximum net quantity per inner packaging: 30 ml  
 Maximum net quantity per outer packaging: 500 ml

· **IMDG**  
 · **Limited quantities (LQ)** 1L  
 · **Excepted quantities (EQ)** Code: E2  
 Maximum net quantity per inner packaging: 30 ml  
 Maximum net quantity per outer packaging: 500 ml

· **UN "Model Regulation":** UN 1184 ETHYLENE DICHLORIDE, 3 (6.1), II

CA

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# Safety Data Sheet

## according to HPR, Schedule 1

Printing date 04/26/2022

Reviewed on 04/26/2022

Trade name: **ETHYLENE DICHLORIDE**

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### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**
- **Section 355 (extremely hazardous substances):** Substance is not listed.
- **Section 313 (Specific toxic chemical listings):** Substance is listed.
- **TSCA (Toxic Substances Control Act):** ACTIVE
- **Canadian substance listings:**
- **Canadian Domestic Substances List (DSL)** Substance is listed.
- **Canadian Non-Domestic Substances List (NDSL)** Substance is not listed.
- **Canadian Ingredient Disclosure list (limit 0.1%)** Substance is not listed.
- **Canadian Ingredient Disclosure list (limit 1%)** Substance is listed.
- **GHS label elements** The substance is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS02    GHS07    GHS08

- **Signal word** Danger
- **Hazard statements**
  - Highly flammable liquid and vapour.
  - Harmful if swallowed.
  - Causes skin irritation.
  - Causes serious eye irritation.
  - May cause cancer.
  - May cause respiratory irritation.
- **Precautionary statements**
  - Obtain special instructions before use.
  - Do not handle until all safety precautions have been read and understood.
  - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
  - Ground and bond container and receiving equipment.
  - Use explosion-proof [electrical/ventilating/lighting] equipment.
  - Use non-sparking tools.
  - Take actions to prevent static discharges.
  - Avoid breathing dust/fume/gas/mist/vapours/spray.
  - Wash thoroughly after handling.
  - Do not eat, drink or smoke when using this product.
  - Use only outdoors or in a well-ventilated area.
  - Wear protective gloves/protective clothing/eye protection/face protection.
  - If swallowed: Call a poison center/doctor if you feel unwell.
  - Rinse mouth.
  - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
  - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
  - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - IF exposed or concerned: Get medical advice/attention.
  - Specific treatment (see on this label).
  - Take off contaminated clothing and wash it before reuse.
  - If skin irritation occurs: Get medical advice/attention.
  - If eye irritation persists: Get medical advice/attention.
  - In case of fire: Use CO<sub>2</sub>, powder or water spray to extinguish.
  - Store in a well-ventilated place. Keep container tightly closed.

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**Safety Data Sheet**  
according to HPR, Schedule 1

Printing date 04/26/2022

Reviewed on 04/26/2022

**Trade name: ETHYLENE DICHLORIDE**

(Contd. of page 9)

*Store in a well-ventilated place. Keep cool.*

*Store locked up.*

*Dispose of contents/container in accordance with local/regional/national/international regulations.*

· **National regulations:**

· **Information about limitation of use:**

*Workers are not allowed to be exposed to this hazardous material. Exceptions can be made by the authorities in certain cases.*

· **Chemical safety assessment:** *A Chemical Safety Assessment has not been carried out.*

## 16 Other information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

· **Contact:**

· **Date of the latest revision of the safety data sheet** 04/26/2022 / -

· **Abbreviations and acronyms:**

*IMDG: International Maritime Code for Dangerous Goods*

*DOT: US Department of Transportation*

*IATA: International Air Transport Association*

*EINECS: European Inventory of Existing Commercial Chemical Substances*

*CAS: Chemical Abstracts Service (division of the American Chemical Society)*

*NFPA: National Fire Protection Association (USA)*

*HMIS: Hazardous Materials Identification System (USA)*

*LC50: Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*

*PBT: Persistent, Bioaccumulative and Toxic*

*vPvB: very Persistent and very Bioaccumulative*

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 26.04.2022

Revision: 26.04.2022

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name:** ETHYLENE DICHLORIDE
- **Article number:** 13250, 13251
- **CAS Number:**  
107-06-2
- **EC number:**  
203-458-1
- **Index number:**  
602-012-00-7
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Laboratory chemicals
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Electron Microscopy Sciences  
1560 Industry Road  
USA-Hatfield, PA 19440  
Tel: 215-412-8400 Fax: 215-412-8450  
email: info@emsdiasum.com  
www.emsdiasum.com
- **Further information obtainable from:** Product safety department
- **1.4 Emergency telephone number:**  
ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.



health hazard

Carc. 1B H350 May cause cancer.



Acute Tox. 4 H302 Harmful if swallowed.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H335 May cause respiratory irritation.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The substance is classified and labelled according to the CLP regulation.

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# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 26.04.2022

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Trade name: **ETHYLENE DICHLORIDE**

(Contd. of page 1)

· **Hazard pictograms**

GHS02   GHS07   GHS08

· **Signal word** *Danger*· **Hazard statements***H225 Highly flammable liquid and vapour.**H302 Harmful if swallowed.**H315 Causes skin irritation.**H319 Causes serious eye irritation.**H350 May cause cancer.**H335 May cause respiratory irritation.*· **Precautionary statements***P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.**P241 Use explosion-proof [electrical/ventilating/lighting] equipment.**P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].**P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.**P405 Store locked up.**P501 Dispose of contents/container in accordance with local/regional/national/international regulations.*· **2.3 Other hazards**· **Results of PBT and vPvB assessment**· **PBT:** Not applicable.· **vPvB:** Not applicable.

## SECTION 3: Composition/information on ingredients

· **3.1 Chemical characterisation: Substances**· **CAS No. Description**

107-06-2 ETHYLENE DICHLORIDE

· **Identification number(s)**· **EC number:** 203-458-1· **Index number:** 602-012-00-7· **SVHC**

107-06-2 | ETHYLENE DICHLORIDE

## SECTION 4: First aid measures

· **4.1 Description of first aid measures**· **General information:***Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.*· **After inhalation:** *In case of unconsciousness place patient stably in side position for transportation.*· **After skin contact:** *Immediately wash with water and soap and rinse thoroughly.*· **After eye contact:***Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.*

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# Safety data sheet

## according to 1907/2006/EC, Article 31

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**Trade name: ETHYLENE DICHLORIDE**

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- **After swallowing:** Call for a doctor immediately.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** No special measures required.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**  
Dilute with plenty of water.  
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** Open and handle receptacle with care.
- **Information about fire - and explosion protection:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.  
Keep respiratory protective device available.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Keep container tightly sealed.  
Store in cool, dry conditions in well sealed receptacles.
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Additional information about design of technical facilities:** No further data; see item 7.

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# Safety data sheet

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Trade name: **ETHYLENE DICHLORIDE**

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· **Ingredients with limit values that require monitoring at the workplace:**

**107-06-2 ETHYLENE DICHLORIDE**

WEL	Long-term value: 21 mg/m <sup>3</sup> , 5 ppm Carc; Sk
-----	---

· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Store protective clothing separately.  
Avoid contact with the eyes and skin.

· **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed goggles

## SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

<b>Form:</b>	Oily
<b>Colour:</b>	Colourless
<b>Odour:</b>	Pleasant
<b>Odour threshold:</b>	Not determined.

<b>pH-value:</b>	Not determined.
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· **Change in condition**

<b>Melting point/freezing point:</b>	-35.5 °C
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**Safety data sheet**  
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Revision: 26.04.2022

Trade name: **ETHYLENE DICHLORIDE**

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<b>Initial boiling point and boiling range:</b>	83.5 °C
· <b>Flash point:</b>	13 °C
· <b>Flammability (solid, gas):</b>	Not applicable.
· <b>Ignition temperature:</b>	413-440 °C
· <b>Decomposition temperature:</b>	Not determined.
· <b>Auto-ignition temperature:</b>	Not determined.
· <b>Explosive properties:</b>	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· <b>Explosion limits:</b>	
Lower:	6.2 Vol %
Upper:	15.9 Vol %
· <b>Vapour pressure at 20 °C:</b>	87 hPa
· <b>Density at 20 °C:</b>	1.24 g/cm <sup>3</sup>
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with water at 20 °C:</b>	8 g/l
· <b>Partition coefficient: n-octanol/water:</b>	Not determined.
· <b>Viscosity:</b>	
Dynamic at 20 °C:	0.8 mPas
Kinematic:	Not determined.
· <b>9.2 Other information</b>	No further relevant information available.

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity**  
Harmful if swallowed.

· **LD/LC50 values relevant for classification:**

Oral	LD50	670 mg/kg (rat)
Dermal	LD50	2,800 mg/kg (rat)

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# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 26.04.2022

Revision: 26.04.2022

Trade name: **ETHYLENE DICHLORIDE**

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- **Primary irritant effect:**
- **Skin corrosion/irritation**  
Causes skin irritation.
- **Serious eye damage/irritation**  
Causes serious eye irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Additional toxicological information:**
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity**  
May cause cancer.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure**  
May cause respiratory irritation.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Water hazard class 3 (German Regulation) (Assessment by list): extremely hazardous for water  
Do not allow product to reach ground water, water course or sewage system, even in small quantities.  
Danger to drinking water if even extremely small quantities leak into the ground.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### SECTION 14: Transport information

- |                                       |                          |
|---------------------------------------|--------------------------|
| · <b>14.1 UN-Number</b>               |                          |
| · <b>ADR, IMDG, IATA</b>              | UN1184                   |
| · <b>14.2 UN proper shipping name</b> |                          |
| · <b>ADR</b>                          | 1184 ETHYLENE DICHLORIDE |

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**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 26.04.2022

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**Trade name: ETHYLENE DICHLORIDE**

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<ul style="list-style-type: none"> <li>· <b>IMDG</b></li> <li>· <b>IATA</b></li> </ul>	<p><i>ETHYLENE DICHLORIDE, MARINE POLLUTANT</i> <i>ETHYLENE DICHLORIDE</i></p>
<ul style="list-style-type: none"> <li>· <b>14.3 Transport hazard class(es)</b></li> <li>· <b>ADR</b></li> </ul>	
	
<ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>	<p>3 Flammable liquids. 3+6.1</p>
<ul style="list-style-type: none"> <li>· <b>IMDG</b></li> </ul>	
	
<ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>	<p>3 Flammable liquids. 3/6.1</p>
<ul style="list-style-type: none"> <li>· <b>IATA</b></li> </ul>	
	
<ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>	<p>3 Flammable liquids. 3 (6.1)</p>
<ul style="list-style-type: none"> <li>· <b>14.4 Packing group</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>	<p>II</p>
<ul style="list-style-type: none"> <li>· <b>14.5 Environmental hazards:</b></li> <li>· <b>Marine pollutant:</b></li> </ul>	<p>Symbol (fish and tree)</p>
<ul style="list-style-type: none"> <li>· <b>14.6 Special precautions for user</b></li> <li>· <b>Hazard identification number (Kemler code):</b></li> <li>· <b>EMS Number:</b></li> <li>· <b>Segregation groups</b></li> <li>· <b>Stowage Category</b></li> <li>· <b>Stowage Code</b></li> </ul>	<p>Warning: Flammable liquids. 336 F-E, S- Liquid halogenated hydrocarbons B SW2 Clear of living quarters.</p>
<ul style="list-style-type: none"> <li>· <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b></li> </ul>	<p>Not applicable.</p>
<ul style="list-style-type: none"> <li>· <b>Transport/Additional information:</b></li> </ul>	
<ul style="list-style-type: none"> <li>· <b>ADR</b></li> <li>· <b>Limited quantities (LQ)</b></li> <li>· <b>Excepted quantities (EQ)</b></li> <li>· <b>Transport category</b></li> <li>· <b>Tunnel restriction code</b></li> </ul>	<p>1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml 2 D/E</p>

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# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 26.04.2022

Revision: 26.04.2022

Trade name: **ETHYLENE DICHLORIDE**

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- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>· <b>IMDG</b></li> <li>· <b>Limited quantities (LQ)</b></li> <li>· <b>Excepted quantities (EQ)</b></li> </ul> | <p>1L<br/>Code: E2<br/>Maximum net quantity per inner packaging: 30 ml<br/>Maximum net quantity per outer packaging: 500 ml</p> |
| <ul style="list-style-type: none"> <li>· <b>UN "Model Regulation":</b></li> </ul>  | <p>UN 1184 ETHYLENE DICHLORIDE, 3 (6.1), II</p>   |

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
  - **Directive 2012/18/EU**
  - **Named dangerous substances - ANNEX I** Substance is not listed.
  - **Seveso category P5c** FLAMMABLE LIQUIDS
  - **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5,000 t
  - **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50,000 t
  - **National regulations:**
  - **Information about limitation of use:**  
*Workers are not allowed to be exposed to this hazardous material. Exceptions can be made by the authorities in certain cases.*
  - **Other regulations, limitations and prohibitive regulations**
  - **Substances of very high concern (SVHC) according to REACH, Article 57**
- |          |                     |
|----------|---------------------|
| 107-06-2 | ETHYLENE DICHLORIDE |
|----------|---------------------|
- **15.2 Chemical safety assessment:** *A Chemical Safety Assessment has not been carried out.*

### SECTION 16: Other information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

- **Abbreviations and acronyms:**  
*ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)*  
*IMDG: International Maritime Code for Dangerous Goods*  
*IATA: International Air Transport Association*  
*GHS: Globally Harmonised System of Classification and Labelling of Chemicals*  
*EINECS: European Inventory of Existing Commercial Chemical Substances*  
*CAS: Chemical Abstracts Service (division of the American Chemical Society)*  
*LC50: Lethal concentration, 50 percent*  
*LD50: Lethal dose, 50 percent*  
*PBT: Persistent, Bioaccumulative and Toxic*  
*SVHC: Substances of Very High Concern*  
*vPvB: very Persistent and very Bioaccumulative*  
*Flam. Liq. 2: Flammable liquids – Category 2*  
*Acute Tox. 4: Acute toxicity – Category 4*  
*Skin Irrit. 2: Skin corrosion/irritation – Category 2*  
*Eye Irrit. 2: Serious eye damage/eye irritation – Category 2*  
*Carc. 1B: Carcinogenicity – Category 1B*  
*STOT SE 3: Specific target organ toxicity (single exposure) – Category 3*

# Bezpečnostní list

## podle 1907/2006/ES, Článek 31

Datum vydání: 26.04.2022

Revize: 26.04.2022

### ODDÍL 1: Identifikace látky/směsi a společnosti/podniku

- **1.1 Identifikátor výrobku**
- **Obchodní označení:** 1,2-Dichlorethan
- **Číslo výrobku:** 13250, 13251
- **Číslo CAS:**  
107-06-2
- **Číslo ES:**  
203-458-1
- **Indexové číslo:**  
602-012-00-7
- **1.2 Příslušná určená použití látky nebo směsi a nedoporučená použití**  
Další relevantní informace nejsou k dispozici.
- **Použití látky / přípravku** Laboratorní chemikálie
- **1.3 Podrobné údaje o dodavateli bezpečnostního listu**
- **Identifikace výrobce/dovozce:**  
Electron Microscopy Sciences  
1560 Industry Road  
USA-Hatfield, PA 19440  
Tel: 215-412-8400 Fax: 215-412-8450  
email: info@emsdiasum.com  
www.emsdiasum.com
- **Obor poskytující informace:** Product safety department
- **1.4 Telefonní číslo pro naléhavé situace:**  
ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887

### ODDÍL 2: Identifikace nebezpečnosti

- **2.1 Klasifikace látky nebo směsi**
- **Klasifikace v souladu s nařízením (ES) č. 1272/2008**



GHS02 plamen

Flam. Liq. 2 H225 Vysoce hořlavá kapalina a páry.



GHS08 nebezpečnost pro zdraví

Carc. 1B H350 Může vyvolat rakovinu.



GHS07

Acute Tox. 4 H302 Zdraví škodlivý při požití.

Skin Irrit. 2 H315 Dráždí kůži.

Eye Irrit. 2 H319 Způsobuje vážné podráždění očí.

STOT SE 3 H335 Může způsobit podráždění dýchacích cest.

- **2.2 Prvky označení**
- **Označování v souladu s nařízením (ES) č. 1272/2008** Látka je klasifikována a označena podle nařízení CLP.

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### · Výstražné symboly nebezpečnosti



GHS02 GHS07 GHS08

### · Signální slovo Nebezpečí

### · Standardní věty o nebezpečnosti

H225 Vysoce hořlavá kapalina a páry.

H302 Zdraví škodlivý při požití.

H315 Dráždí kůži.

H319 Způsobuje vážné podráždění očí.

H350 Může vyvolat rakovinu.

H335 Může způsobit podráždění dýchacích cest.

### · Pokyny pro bezpečné zacházení

P210 Chraňte před teplem, horkými povrchy, jiskrami, otevřeným plamenem a jinými zdroji zapálení. Zákaz kouření.

P241 Používejte [elektrické/ventilační/osvětlovací] zařízení do výbušného prostředí.

P303+P361+P353 PŘI STYKU S KŮŽÍ (nebo s vlasy): Veškeré kontaminované části oděvu okamžitě svlékněte. Opláchněte kůži vodou [nebo osprchujte].

P305+P351+P338 PŘI ZASAŽENÍ OČÍ: Několik minut opatrně vyplachujte vodou. Vyjměte kontaktní čočky, jsou-li nasazeny a pokud je lze vyjmout snadno. Pokračujte ve vyplachování.

P405 Skladujte uzamčené.

P501 Obsah/nádobu likvidujte v souladu s místními/regionálními/národními/mezinárodními předpisy.

### · 2.3 Další nebezpečnost

### · Výsledky posouzení PBT a vPvB

· **PBT:** Nedá se použít.

· **vPvB:** Nedá se použít.

## ODDÍL 3: Složení/informace o složkách

### · 3.1 Chemická charakteristika: Látky

#### · Číslo CAS:

107-06-2 1,2-Dichlorethan

#### · Identifikační číslo(čísla)

· Číslo ES: 203-458-1

· Indexové číslo: 602-012-00-7

#### · SVHC

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## ODDÍL 4: Pokyny pro první pomoc

### · 4.1 Popis první pomoci

#### · Všeobecné pokyny:

Príznaky otravy se mohou projevit až po mnoha hodinách, proto je nutný lékařský dohled nejméně 48 hodin po nehodě.

· **Při nadýchání:** Při bezvědomí uložit a přepravit ve stabilní poloze na boku.

· **Při styku s kůží:** Ihned omýt vodou a mýdlem a dobře opláchnout.

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- **Při zasažení očí:**  
Oči s otevřenými víčky vyplachovat po více minut proudem tekoucí vody. Při přetrvávajících potížích se poradit s lékařem.
- **Při požití:** Ihned vyhledat lékaře.
- **4.2 Nejdůležitější akutní a opožděné symptomy a účinky** Další relevantní informace nejsou k dispozici.
- **4.3 Pokyn týkající se okamžité lékařské pomoci a zvláštního ošetření**  
Další relevantní informace nejsou k dispozici.

### ODDÍL 5: Opatření pro hašení požáru

- **5.1 Hasiva**
- **Vhodná hasiva:**  
CO<sub>2</sub>, hasící prášek nebo rozstříkované vodní paprsky. Větší ohně zdotat rozstříkovanými vodními paprsky nebo pěnou odolnou vůči alkoholu.
- **5.2 Zvláštní nebezpečnost vyplývající z látky nebo směsi** Další relevantní informace nejsou k dispozici.
- **5.3 Pokyny pro hasiče**
- **Zvláštní ochranné prostředky pro hasiče:** Nejsou nutná žádná zvláštní opatření.

### ODDÍL 6: Opatření v případě náhodného úniku

- **6.1 Opatření na ochranu osob, ochranné prostředky a nouzové postupy**  
Nosit ochrannou výstroj. Nechráněné osoby se nesmí přibližovat.
- **6.2 Opatření na ochranu životního prostředí:**  
Zředit velkým množstvím vody.  
Nenechat proniknout do kanalizace/povrchových vod/podzemních vod.
- **6.3 Metody a materiál pro omezení úniku a pro čištění:**  
Sebrat s materiály, vázícími kapaliny (písek, šterkový písek, pojidla kyselin, universální pojidla, piliny).  
Kontaminovaný materiál odstranit jako odpad podle bodu 13.  
Zajistit dostatečné větrání.
- **6.4 Odkaz na jiné oddíly**  
Informace o bezpečném zacházení viz kapitola 7.  
Informace o osobní ochranné výstroji viz kapitola 8.  
Informace k odstranění viz kapitola 13.

### ODDÍL 7: Zacházení a skladování

- **7.1 Opatření pro bezpečné zacházení** Nádrž opatrně otevřít a zacházet s ní opatrně.
- **Upozornění k ochraně před ohněm a explozí:**  
Nepřibližovat se ze zápalnými zdroji - nekouřit.  
Zajistit proti elektrostatickému náboji.  
Mít připravené ochranné dýchací přístroje.
- **7.2 Podmínky pro bezpečné skladování látek a směsí včetně neslučitelných látek a směsí**
- **Pokyny pro skladování:**
- **Požadavky na skladovací prostory a nádoby:** Skladovat na chladném místě.
- **Upozornění k hromadnému skladování:** Není nutné.
- **Další údaje k podmínkám skladování:**  
Nádrž držet neprodyšně uzavřenou.  
Skladovat v dobře uzavřených nádobách v chladu a suchu.
- **7.3 Specifické konečné / specifická konečná použití** Další relevantní informace nejsou k dispozici.

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### ODDÍL 8: Omezování expozice / osobní ochranné prostředky

- **8.1 Kontrolní parametry**
- **Technická opatření:** Žádné další údaje, viz bod 7.

- **Kontrolní parametry:**

#### 107-06-2 1,2-Dichlorethan

NPK	Krátkodobá hodnota: 16 mg/m <sup>3</sup> Dlouhodobá hodnota: 8 mg/m <sup>3</sup> D, I, K
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- **Další upozornění:** Jako podklad sloužily při zhotovení platné listiny.

- **8.2 Omezování expozice**

- **Osobní ochranné prostředky:**

- **Všeobecná ochranná a hygienická opatření:**

- Zdržovat od potravin, nápojů a krmiv.
- Zašpiněné, nasáknuté šaty ihned vysvléci.
- Před přestávkami a po práci umýt ruce.
- Ochranný oděv odděleně přechovávat.
- Zamezit styku s pokožkou a zrakem.

- **Ochrana dýchacích orgánů:**

Při krátkodobém nebo nízkém zatížení použít dýchací přístroj s filtrem, při intenzivním nebo delším zatížení se musí použít dýchací přístroj nezávislý na okolním vzduchu.

- **Ochrana rukou:**



Ochranné rukavice

Materiál rukavic musí být nepropustný a odolný proti produktu / látce / směsi.

Vzhledem k tomu, že chybí testy, není možné doporučit materiál rukavic pro produkt / přípravek / chemickou směs.

Výběr materiálu rukavic proveďte podle času průniku, permeability a degradace.

- **Materiál rukavic**

Správný výběr rukavic nezávisí jen na materiálu, ale také na dalších kritériích, která se liší podle výrobce.

- **Doba průniku materiálem rukavic**

Je nutno u výrobce rukavic zjistit a dodržovat přesné časy průniku materiálem ochranných rukavic.

- **Ochrana očí:**



Uzavřené ochranné brýle

### ODDÍL 9: Fyzikální a chemické vlastnosti

- **9.1 Informace o základních fyzikálních a chemických vlastnostech**

- **Všeobecné údaje**

- **Vzhled:**

Skupenství:

Olejové

Barva:

Bezbarvá

- **Zápach:**

Příjemný

- **Prahová hodnota zápachu:**

Není určeno.

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· <b>Hodnota pH:</b>	Není určeno.
· <b>Změna stavu</b> · <b>Bod tání/bod tuhnutí:</b>	-35,5 °C
· <b>Počáteční bod varu a rozmezí bodu varu:</b>	83,5 °C
· <b>Bod vzplanutí:</b>	13 °C
· <b>Hořlavost (pevné látky, plyny):</b>	Nedá se použít.
· <b>Zápalná teplota:</b>	413-440 °C
· <b>Teplota rozkladu:</b>	Není určeno.
· <b>Teplota samovznícení:</b>	Není určeno.
· <b>Výbušné vlastnosti:</b>	I když produktu nehrozí nebezpečí exploze, je přesto možné nebezpečí exploze ve směsi par se vzduchem.
· <b>Meze výbušnosti:</b> · <b>Dolní mez:</b>	6,2 Vol %
· <b>Horní mez:</b>	15,9 Vol %
· <b>Tlak páry při 20 °C:</b>	87 hPa
· <b>Hustota při 20 °C:</b>	1,24 g/cm <sup>3</sup>
· <b>Relativní hustota</b>	Není určeno.
· <b>Hustota páry:</b>	Není určeno.
· <b>Rychlost odpařování</b>	Není určeno.
· <b>Rozpuštěnost ve / směřitelnost s vodě při 20 °C:</b>	8 g/l
· <b>Rozdělovací koeficient: n-oktanol/voda:</b>	Není určeno.
· <b>Viskozita:</b> · <b>Dynamicky při 20 °C:</b>	0,8 mPas
· <b>Kinematicky:</b>	Není určeno.
· <b>9.2 Další informace</b>	Další relevantní informace nejsou k dispozici.

### ODDÍL 10: Stálost a reaktivita

- **10.1 Reaktivita** Další relevantní informace nejsou k dispozici.
- **10.2 Chemická stabilita**
- **Termický rozklad / Podmínky, kterých je nutno se vyvarovat:**  
Nedochází k rozkladu při doporučeném způsobu použití.
- **10.3 Možnost nebezpečných reakcí** Žádné nebezpečné reakce nejsou známy.
- **10.4 Podmínky, kterým je třeba zabránit** Další relevantní informace nejsou k dispozici.
- **10.5 Neslučitelné materiály:** Další relevantní informace nejsou k dispozici.
- **10.6 Nebezpečné produkty rozkladu:** Nejsou známy žádné nebezpečné produkty při rozkladu.

### ODDÍL 11: Toxikologické informace

- **11.1 Informace o toxikologických účincích**
- **Akutní toxicita**  
Zdraví škodlivý při požití.

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### · Zařazení relevantní hodnoty LD/LC 50:

Orálně	LD50	670 mg/kg (rat)
Pokožkou	LD50	2.800 mg/kg (rat)

- **Primární dráždivé účinky:**
- **Žiravost/dráždivost pro kůži**  
Dráždí kůži.
- **Vážné poškození očí / podráždění očí**  
Způsobuje vážné podráždění očí.
- **Senzibilizace dýchacích cest / senzibilizace kůže**  
Na základě dostupných údajů nejsou kritéria pro klasifikaci splněna.
- **Doplňující toxikologická upozornění:**
- **Účinky CMR (karcinogenita, mutagenita a toxicita pro reprodukci)**
- **Mutagenita v zárodečných buňkách** Na základě dostupných údajů nejsou kritéria pro klasifikaci splněna.
- **Karcinogenita**  
Může vyvolat rakovinu.
- **Toxicita pro reprodukci** Na základě dostupných údajů nejsou kritéria pro klasifikaci splněna.
- **Toxicita pro specifické cílové orgány – jednorázová expozice**  
Může způsobit podráždění dýchacích cest.
- **Toxicita pro specifické cílové orgány – opakovaná expozice**  
Na základě dostupných údajů nejsou kritéria pro klasifikaci splněna.
- **Nebezpečnost při vdechnutí** Na základě dostupných údajů nejsou kritéria pro klasifikaci splněna.

## ODDÍL 12: Ekologické informace

- **12.1 Toxicita**
- **Aquatická toxicita:** Další relevantní informace nejsou k dispozici.
- **12.2 Perzistence a rozložitelnost** Další relevantní informace nejsou k dispozici.
- **12.3 Bioakumulační potenciál** Další relevantní informace nejsou k dispozici.
- **12.4 Mobilita v půdě** Další relevantní informace nejsou k dispozici.
- **Další ekologické údaje:**
- **Všeobecná upozornění:**  
Třída ohrožení vody 3 (zařazení v listině): silně ohrožuje vodu  
Nesmí vniknout do spodní vody, povodí nebo do kanalizace, ani v malých množstvích.  
Ohrožuje pitnou vodu už při proniknutí nepatrného množství do zeminy.
- **12.5 Výsledky posouzení PBT a vPvB**
- **PBT:** Nedá se použít.
- **vPvB:** Nedá se použít.
- **12.6 Jiné nepříznivé účinky** Další relevantní informace nejsou k dispozici.

## ODDÍL 13: Pokyny pro odstraňování

- **13.1 Metody nakládání s odpady**
- **Doporučení:** Nesmí se odstraňovat společně s odpady z domácnosti. Nepřipustit únik do kanalizace.
- **Kontaminované obaly:**
- **Doporučení:** Odstranění podle příslušných předpisů.
- **Doporučený čisticí prostředek:** Voda, případně s přísadami čisticích prostředků.

CZ

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### ODDÍL 14: Informace pro přepravu

<ul style="list-style-type: none"> <li>· 14.1 UN číslo</li> <li>· ADR, IMDG, IATA</li> </ul>	<p style="text-align: right;">UN1184</p>
<ul style="list-style-type: none"> <li>· 14.2 Oficiální (OSN) pojmenování pro přepravu</li> <li>· ADR</li> <li>· IMDG</li> <li>· IATA</li> </ul>	<p style="text-align: right;">1184 ETHYLENDICHLORID ETHYLENE DICHLORIDE, MARINE POLLUTANT ETHYLENE DICHLORIDE</p>
<ul style="list-style-type: none"> <li>· 14.3 Třída/třídy nebezpečnosti pro přepravu</li> <li>· ADR</li> </ul> <div style="display: flex; align-items: center; gap: 10px;">   </div> <ul style="list-style-type: none"> <li>· třída</li> <li>· Etiketa</li> </ul>	<p style="text-align: right;">3 Hořlavé kapaliny 3+6.1</p>
<ul style="list-style-type: none"> <li>· IMDG</li> </ul> <div style="display: flex; align-items: center; gap: 10px;">    </div> <ul style="list-style-type: none"> <li>· Class</li> <li>· Label</li> </ul>	<p style="text-align: right;">3 Hořlavé kapaliny 3/6.1</p>
<ul style="list-style-type: none"> <li>· IATA</li> </ul> <div style="display: flex; align-items: center; gap: 10px;">   </div> <ul style="list-style-type: none"> <li>· Class</li> <li>· Label</li> </ul>	<p style="text-align: right;">3 Hořlavé kapaliny 3 (6.1)</p>
<ul style="list-style-type: none"> <li>· 14.4 Obalová skupina</li> <li>· ADR, IMDG, IATA</li> </ul>	<p style="text-align: right;">II</p>
<ul style="list-style-type: none"> <li>· 14.5 Nebezpečnost pro životní prostředí:</li> <li>· Látka znečišťující moře:</li> </ul>	<p style="text-align: right;">Symbol (ryba a strom)</p>
<ul style="list-style-type: none"> <li>· 14.6 Zvláštní bezpečnostní opatření pro uživatele</li> <li>· Identifikační číslo nebezpečnosti (Kemlerovo číslo):</li> <li>· EMS-skupina:</li> <li>· Segregation groups</li> <li>· Stowage Category</li> <li>· Stowage Code</li> </ul>	<p style="text-align: right;">Varování: Hořlavé kapaliny 336 F-E, S- Liquid halogenated hydrocarbons B SW2 Clear of living quarters.</p>
<ul style="list-style-type: none"> <li>· 14.7 Hromadná přeprava podle přílohy II úmluvy MARPOL a předpisu IBC</li> </ul>	<p style="text-align: right;">Nedá se použít.</p>
<ul style="list-style-type: none"> <li>· Přeprava/další údaje:</li> <li>· ADR</li> <li>· Omezené množství (LQ)</li> </ul>	<p style="text-align: right;">1L</p>

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· <b>Vyňatá množství (EQ)</b>	Kód: E2 Nejvyšší čisté množství na vnitřní obal: 30 ml Nejvyšší čisté množství na vnější obal: 500 ml
· <b>Přepravní kategorie</b>	2
· <b>Kód omezení pro tunely:</b>	D/E
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	IL
· <b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <b>UN "Model Regulation":</b>	UN 1184 ETHYLENDICHLORID, 3 (6.1), II

### ODDÍL 15: Informace o předpisech

- **15.1 Předpisy týkající se bezpečnosti, zdraví a životního prostředí/specifické právní předpisy týkající se látky nebo směsi**
- **Rady 2012/18/EU**
- **Nebezpečné látky jmenovitě uvedené - PŘÍLOHA I** Látka neobsažena.
- **Kategorie Seveso P5c HOŘLAVÉ KAPALINY**
- **Kvalifikační množství (v tunách) při uplatnění požadavků pro podlimitní množství 5.000 t**
- **Kvalifikační množství (v tunách) při uplatnění požadavků pro nadlimitní množství 50.000 t**
- **SEZNAM LÁTEK PODLÉHAJÍCÍCH POVOLENÍ (PŘÍLOHA XIV) Sunset date: 2017-11-22**
- **Rady (ES) č. 1907/2006 PŘÍLOHA XVII** Omezující podmínky: 3, 28, 40
- **Rady (EU) č. 649/2012**  
Annex I Part 1  
Annex I Part 3
- **Směrnice 2011/65/EU o omezení používání některých nebezpečných látek v elektrických a elektronických zařízeních - Příloha II**  
Látka neobsažena.
- **NAŘÍZENÍ (EU) 2019/1148**
- **Příloha I - PREKURZORY VÝBUŠNIN PODLÉHAJÍCÍ OMEZENÍ (Horní mezní hodnota pro účely povolení podle čl. 5 odst. 3)**  
Látka neobsažena.
- **Příloha II - PREKURZORY VÝBUŠNIN PODLÉHAJÍCÍ OZNAMOVÁNÍ** Látka neobsažena.
- **Nářízení (ES) č. 273/2004 o prekursorech drog** Látka neobsažena.
- **Nářízení (ES) č. 111/2005 kterým se stanoví pravidla pro sledování obchodu s prekursory drog mezi Společenstvím a třetími zeměmi**  
Látka neobsažena.
- **Národní předpisy:**
- **Upozornění na omezení práce:**  
Pracovníci nesmí přijít do styku s touto nebezpečnou látkou. V jednotlivých případech se mohou úřady povolit vyjímkou.
- **Jiná ustanovení, omezení a zákazy**
- **Látky vzbuzující mimořádné obavy (SVHC) podle REACH, čl. 57**
- 107-06-2 | 1,2-Dichlorethan
- **15.2 Posouzení chemické bezpečnosti:** Posouzení chemické bezpečnosti nebylo provedeno.

CZ

(pokračování na straně 9)

# Bezpečnostní list podle 1907/2006/ES, Článek 31

Datum vydání: 26.04.2022

Revize: 26.04.2022

Obchodní označení: 1,2-Dichlorethan

(pokračování strany 8)

## ODDÍL 16: Další informace

Údaje se opírají o dnešní stav našich vědomostí, nepředstavují však záruku vlastností produktu a nevznikají tak žádné smluvní právní vztahy.

### Zkratky a akronymy:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Hořlavé kapaliny – Kategorie 2

Acute Tox. 4: Akutní toxicita – Kategorie 4

Skin Irrit. 2: Žiravost/dráždivost pro kůži – Kategorie 2

Eye Irrit. 2: Vážné poškození očí / podráždění očí – Kategorie 2

Carc. 1B: Karcinogenita – Kategorie 1B

STOT SE 3: Toxicita pro specifické cílové orgány (jednorázová expozice) – Kategorie 3

# Veiligheidsinformatieblad volgens 1907/2006/EG, Artikel 31

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## RUBRIEK 1: Identificatie van de stof of het mengsel en van de vennootschap/onderneming

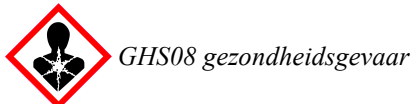
- **1.1 Productidentificatie**
- **Handelsnaam:** 1,2-dichloorethaan
- **Artikelnummer:** 13250, 13251
- **CAS-nummer:**  
107-06-2
- **EC-nummer:**  
203-458-1
- **Catalogusnummer:**  
602-012-00-7
- **1.2 Relevant geïdentificeerd gebruik van de stof of het mengsel en ontraden gebruik**  
Geen verdere relevante informatie verkrijgbaar.
- **Toepassing van de stof / van de bereiding** Laboratoriumchemicaliën
- **1.3 Details betreffende de verstrekker van het veiligheidsinformatieblad**
- **Fabrikant/leverancier:**  
Electron Microscopy Sciences  
1560 Industry Road  
USA-Hatfield, PA 19440  
Tel: 215-412-8400 Fax: 215-412-8450  
email: info@emsdiasum.com  
www.emsdiasum.com
- **Aurion**  
Binnenhaven 5  
6709 PD Wageningen  
The Netherlands  
Tel: 31 317 415094  
Fax: 31 317 415955  
email: info@aurion.nl
- **Inlichtingengevende sector:** Product safety department
- **1.4 Telefoonnummer voor noodgevallen:**  
ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887

## RUBRIEK 2: Identificatie van de gevaren

- **2.1 Indeling van de stof of het mengsel**
- **Indeling overeenkomstig Verordening (EG) nr. 1272/2008**



Flam. Liq. 2 H225 Licht ontvlambare vloeistof en damp.



Carc. 1B H350 Kan kanker veroorzaken.



Acute Tox. 4 H302 Schadelijk bij inslikken.

(Vervolg op blz. 2)



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(Vervolg van blz. 1)

*Skin Irrit. 2 H315* Veroorzaakt huidirritatie.  
*Eye Irrit. 2 H319* Veroorzaakt ernstige oogirritatie.  
*STOT SE 3 H335* Kan irritatie van de luchtwegen veroorzaken.

## · 2.2 Etiketteringselementen

### · Etikettering overeenkomstig Verordening (EG) nr. 1272/2008

De stof/product is geclassificeerd en geëtiketteerd volgens de CLP-verordening.

### · Gevarenpictogrammen



GHS02 GHS07 GHS08

### · Signaalwoord Gevaar

### · Gevarenaanduidingen

*H225* Licht ontvlambare vloeistof en damp.

*H302* Schadelijk bij inslikken.

*H315* Veroorzaakt huidirritatie.

*H319* Veroorzaakt ernstige oogirritatie.

*H350* Kan kanker veroorzaken.

*H335* Kan irritatie van de luchtwegen veroorzaken.

### · Veiligheidsaanbevelingen

*P210* Verwijderd houden van warmte, hete oppervlakken, vonken, open vuur en andere ontstekingsbronnen. Niet roken.

*P241* Explosieveilige [elektrische/ventilatie-/verlichtings-]apparatuur gebruiken.

*P303+P361+P353* BIJ CONTACT MET DE HUID (of het haar): verontreinigde kleding onmiddellijk uittrekken. Huid met water afspoelen [of afdouchen].

*P305+P351+P338* BIJ CONTACT MET DE OGEN: voorzichtig afspoelen met water gedurende een aantal minuten; contactlenzen verwijderen, indien mogelijk; blijven spoelen.

*P405* Achter slot bewaren.

*P501* De inhoud en de verpakking verwerken volgens de plaatselijke/regionale/nationale/internationale voorschriften.

## · 2.3 Andere gevaren

### · Resultaten van PBT- en zPzB-beoordeling

· **PBT:** Niet bruikbaar.

· **zPzB:** Niet bruikbaar.

## RUBRIEK 3: Samenstelling en informatie over de bestanddelen

### · 3.1 Chemische karakterisering: Stoffen

#### · CAS-Nr. omschrijving

107-06-2 1,2-dichloorethaan

#### · Identificatienummer(s)

· **EC-nummer:** 203-458-1

· **Catalogusnummer:** 602-012-00-7

#### · SVHC

107-06-2 1,2-dichloorethaan

NL

(Vervolg op blz. 3)

# Veiligheidsinformatieblad

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(Vervolg van blz. 2)

### RUBRIEK 4: Eerstehulpmaatregelen

#### · 4.1 Beschrijving van de eerstehulpmaatregelen

##### · Algemene informatie:

Het is mogelijk dat vergiftigingssymptomen pas na vele uren optreden. Om deze reden is medische controle gedurende minstens 48 uur na een ongeval noodzakelijk.

· **Na het inademen:** Bij bewusteloosheid ligging en vervoer in stabiele zijligging.

· **Na huidcontact:** Onmiddellijk met water en zeep afwassen en goed naspoelen.

##### · Na oogcontact:

De ogen gedurende verscheidene minuten onder stromend water afspoelen terwijl de oogspleet geopend blijft. Bij aanhoudende klachten een dokter raadplegen.

· **Na inslikken:** Onmiddellijk arts raadplegen.

· **4.2 Belangrijkste acute en uitgestelde symptomen en effecten** Geen verdere relevante informatie verkrijgbaar.

· **4.3 Vermelding van de vereiste onmiddellijke medische verzorging en speciale behandeling**

Geen verdere relevante informatie verkrijgbaar.

### RUBRIEK 5: Brandbestrijdingsmaatregelen

#### · 5.1 Blusmiddelen

##### · Geschikte blusmiddelen:

CO<sub>2</sub>, bluspoeder of waterstraal. Grotere brand met waterstraal bestrijden of met schuim, dat tegen alcohol bestand is.

· **5.2 Speciale gevaren die door de stof of het mengsel worden veroorzaakt**

Geen verdere relevante informatie verkrijgbaar.

· **5.3 Advies voor brandweerlieden**

· **Speciale beschermende kleding:** Geen bijzondere maatregelen nodig.

### RUBRIEK 6: Maatregelen bij het accidenteel vrijkomen van de stof of het mengsel

#### · 6.1 Persoonlijke voorzorgsmaatregelen, beschermingsmiddelen en noodprocedures

Beschermende kleding aantrekken. Niet beschermde personen op afstand houden.

#### · 6.2 Milieuvoorzorgsmaatregelen:

Met veel water verdunnen.

Niet in de riolering/het oppervlaktewater/het grondwater laten terechtkomen.

#### · 6.3 Insluifings- en reinigingsmethoden en -materiaal:

Met vloeistofbindend materiaal (zand, bergmeel, zuurbinder, universele binder, zaagmeel) opnemen.

Besmet materiaal zoals afval volgens punt 13 verwijderen.

Voor voldoende ventilatie zorgen.

#### · 6.4 Verwijzing naar andere rubrieken

Informatie inzake veilig gebruik - zie hoofdstuk 7.

Informatie inzake persoonlijke beschermingsuitrusting - zie hoofdstuk 8.

Informatie inzake berging - zie hoofdstuk 13.

### RUBRIEK 7: Hantering en opslag

#### · 7.1 Voorzorgsmaatregelen voor het veilig hanteren van de stof of het mengsel

Tanks voorzichtig openen en behandelen.

#### · Informatie m.b.t. brand- en ontploffingsgevaar:

Onstekingbronnen op afstand houden - niet roken.

Maatregelen treffen tegen ontlading van statische elektriciteit.

Ademhalingsstoestellen gereedhouden.

(Vervolg op blz. 4)

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- **7.2 Voorwaarden voor een veilige opslag, met inbegrip van incompatibele producten**
- **Opslag:**
- **Eisen ten opzichte van opslagruimte en tanks:** Op een koele plaats bewaren.
- **Informatie m.b.t. gezamenlijke opslag:** Niet noodzakelijk.
- **Verdere inlichtingen over eisen m.b.t. de opslag:**  
Tanks ondoordringbaar gesloten houden.  
Koel en droog bewaren in goed gesloten vaten.
- **7.3 Specifiek eindgebruik** Geen verdere relevante informatie verkrijgbaar.

### RUBRIEK 8: Maatregelen ter beheersing van blootstelling/persoonlijke bescherming

- **8.1 Controleparameters**
- **Aanvullende gegevens m.b.t. de inrichting van technische installaties:** Geen aanvullende gegevens. Zie 7.

- **Bestanddelen met grenswaarden die m.b.t. de werkruimte in acht genomen moeten worden:**

<b>107-06-2 1,2-dichloorethaan</b>
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WGW	Lange termijn waarde: 7 mg/m <sup>3</sup>
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- **Aanvullende gegevens:** Als basis dienden lijsten die bij opstelling geldig waren.

- **8.2 Maatregelen ter beheersing van blootstelling**

- **Persoonlijke beschermingsvoorzieningen:**

- **Algemene beschermings- en gezondheidsmaatregelen:**

Verwijderd houden van eet- en drinkwaren.  
Verontreinigde kleding onmiddellijk uittrekken.  
Vóór de pauze en aan het einde van werktijd handen wassen.  
Beschermende kleding afzonderlijk bewaren.  
Aanraking met de ogen en de huid vermijden.

- **Ademhalingsbescherming:**

Bij korte of geringe belasting ademfiltertoestel; bij intensieve resp. langdurige expositie een van de omringende lucht onafhankelijk ademhalingsstoestel gebruiken.

- **Handbescherming:**



Veiligheidshandschoenen

Het handschoenmateriaal moet ondoorlatend en bestand zijn tegen het product / de stof / de bereiding.  
Op grond van falende testen kan geen aanbeveling voor handschoenmateriaal voor het product / de bereiding / het chemicaliën mengsel afgegeven worden.

Kies handschoenmateriaal rekening houdend met de penetratietijden, de permeatiegraden en de degradatie.

- **Handschoenmateriaal**

De keuze van een geschikte handschoen is niet alleen afhankelijk van het materiaal, maar ook van andere kwaliteitskenmerken en verschilt van fabrikant tot fabrikant.

- **Doordringingstijd van het handschoenmateriaal**

De precieze penetratietijd kunt u te weten komen bij de handschoenfabrikant; houd er rekening mee.

- **Oogbescherming:**



Nauw aansluitende veiligheidsbril

NL

(Vervolg op blz. 5)

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(Vervolg van blz. 4)

## RUBRIEK 9: Fysische en chemische eigenschappen

### · 9.1 Informatie over fysische en chemische basiseigenschappen

#### · Algemene gegevens

#### · Voorkomen:

Vorm:	Olieachtig
Kleur:	Kleurloos
Geur:	Aangenaam
Geurdrempelwaarde:	Niet bepaald.

· pH-waarde: Niet bepaald.

#### · Toestandsverandering

Smelt-/vriespunt:	-35,5 °C
Beginkookpunt en kooktraject:	83,5 °C

· Vlampunt: 13 °C

· Ontvlambaarheid (vast, gas): Niet bruikbaar.

· Ontstekingstemperatuur: 413-440 °C

· Ontledingstemperatuur: Niet bepaald.

· Zelfontbrandingstemperatuur: Niet bepaald.

· Ontploffingseigenschappen: Het produkt is niet ontploffingsgevaarlijk, maar de vorming van ontploffingsgevaarlijke damp-/luchtmengsels is mogelijk.

#### · Ontploffingsgrenzen:

Onderste:	6,2 Vol %
Bovenste:	15,9 Vol %

· Dampspanning bij 20 °C: 87 hPa

· Dichtheid bij 20 °C: 1,24 g/cm<sup>3</sup>

· Relatieve dichtheid: Niet bepaald.

· Dampdichtheid: Niet bepaald.

· Verdampingssnelheid: Niet bepaald.

#### · Oplosbaarheid in/mengbaarheid met

Water bij 20 °C: 8 g/l

· Verdelingscoëfficiënt: n-octanol/water: Niet bepaald.

#### · Viscositeit

Dynamisch bij 20 °C:	0,8 mPas
Kinematisch:	Niet bepaald.

· 9.2 Overige informatie: Geen verdere relevante informatie verkrijgbaar.

## RUBRIEK 10: Stabiliteit en reactiviteit

· 10.1 Reactiviteit: Geen verdere relevante informatie verkrijgbaar.

· 10.2 Chemische stabiliteit

· Thermische afbraak / te vermijden omstandigheden: Geen afbraak bij gebruik volgens voorschrift.

· 10.3 Mogelijke gevaarlijke reacties: Geen gevaarlijke reacties bekend.

· 10.4 Te vermijden omstandigheden: Geen verdere relevante informatie verkrijgbaar.

· 10.5 Chemisch op elkaar inwerkende materialen: Geen verdere relevante informatie verkrijgbaar.

(Vervolg op blz. 6)

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(Vervolg van blz. 5)

· **10.6 Gevaarlijke ontledingsproducten:** Geen gevaarlijke ontbindingsproducten bekend.

### RUBRIEK 11: Toxicologische informatie

· **11.1 Informatie over toxicologische effecten**· **Acute toxiciteit**

Schadelijk bij inslikken.

· **Indelingsrelevantie LD/LC50-waarden:**

Oraal	LD50	670 mg/kg (rat)
Dermaal	LD50	2.800 mg/kg (rat)

· **Primaire aandoening:**· **Huidcorrosie/-irritatie**

Veroorzaakt huidirritatie.

· **Ernstig oogletsel/oogirritatie**

Veroorzaakt ernstige oogirritatie.

· **Sensibilisatie van de luchtwegen/de huid**

Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.

· **Aanvullende toxicologische informatie:**· **CMR-effecten (kankerverwekkendheid, mutageniteit en giftigheid voor de voortplanting)**· **Mutageniteit in geslachtscellen** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.· **Kankerverwekkendheid**

Kan kanker veroorzaken.

· **Giftigheid voor de voortplanting** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.· **STOT bij eenmalige blootstelling**

Kan irritatie van de luchtwegen veroorzaken.

· **STOT bij herhaalde blootstelling** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.· **Gevaar bij inademing** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.

### RUBRIEK 12: Ecologische informatie

· **12.1 Toxiciteit**· **Aquatische toxiciteit:** Geen verdere relevante informatie verkrijgbaar.· **12.2 Persistentie en afbreekbaarheid** Geen verdere relevante informatie verkrijgbaar.· **12.3 Bioaccumulatie** Geen verdere relevante informatie verkrijgbaar.· **12.4 Mobiliteit in de bodem** Geen verdere relevante informatie verkrijgbaar.· **Verdere ecologische informatie:**· **Algemene informatie:**

Waterbezwaarlijkheid (NL): Z(1) niet afbreekbare stoffen met gevaarlijke eigenschappen voor mens en milieu (carcinogeniteit/mutageniteit/ reprotoxiciteit/bioaccumulerend vermogen/ toxiciteit of persistentie)

Gevaar voor water klasse 3 (D) (Lijstclassificatie): gevaar voor water groot

Niet lozen in grondwater, oppervlaktewater of riolering, ook niet in kleine hoeveelheden.

Gevaar voor drinkwater zelfs bij het uitlopen van zeer geringe hoeveelheden in de ondergrond.

· **12.5 Resultaten van PBT- en zPzB-beoordeling**· **PBT:** Niet bruikbaar.· **zPzB:** Niet bruikbaar.· **12.6 Andere schadelijke effecten** Geen verdere relevante informatie verkrijgbaar.

(Vervolg op blz. 7)

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(Vervolg van blz. 6)

## RUBRIEK 13: Instructies voor verwijdering

- **13.1 Afvalverwerkingsmethoden**
- **Aanbeveling:** Mag niet tesamen met huisvuil gestort worden of in de riolering terechtkomen.
- **Niet gereinigde verpakkingen:**
- **Aanbeveling:** Afvalverwijdering volgens overheidsbepalingen.
- **Aanbevolen reinigingsmiddel:** Water, eventueel met toevoeging van reinigingsmiddelen.

## RUBRIEK 14: Informatie met betrekking tot het vervoer

- |   |   |
|---|---|
| · <b>14.1 VN-nummer</b><br>· <b>ADR, IMDG, IATA</b>   | UNI184  |
| · <b>14.2 Juiste ladingnaam overeenkomstig de modelreglementen van de VN</b><br>· <b>ADR</b><br>· <b>IMDG</b><br>· <b>IATA</b>                                      | 1184 ETHYLEENDICHLORIDE<br>ETHYLENE DICHLORIDE, MARINE POLLUTANT<br>ETHYLENE DICHLORIDE   |
| · <b>14.3 Transportgevarenklasse(n)</b><br>· <b>ADR</b>   |   |
|   |   |
| · <b>klasse</b><br>· <b>Etiket</b>  | 3 Brandbare vloeistoffen<br>3+6.1   |
| · <b>IMDG</b>   |   |
|    |   |
| · <b>Class</b><br>· <b>Label</b>  | 3 Brandbare vloeistoffen<br>3/6.1   |
| · <b>IATA</b>   |   |
|    |   |
| · <b>Class</b><br>· <b>Label</b>  | 3 Brandbare vloeistoffen<br>3 (6.1)   |
| · <b>14.4 Verpakkingsgroep:</b><br>· <b>ADR, IMDG, IATA</b>   | II  |
| · <b>14.5 Milieugevaren:</b><br>· <b>Marine pollutant:</b>  | Symbool (vis en boom)   |
| · <b>14.6 Bijzondere voorzorgen voor de gebruiker</b><br>· <b>Gevaarsidentificatienummer (Kemler-getal):</b><br>· <b>EMS-nummer:</b><br>· <b>Segregation groups</b> | Waarschuwing: Brandbare vloeistoffen<br>336<br>F-E, S-<br>Liquid halogenated hydrocarbons |

(Vervolg op blz. 8)

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(Vervolg van blz. 7)

· <b>Stowage Category</b>	B
· <b>Stowage Code</b>	SW2 Clear of living quarters.
· <b>14.7 Vervoer in bulk overeenkomstig bijlage II bij Marpol en de IBC-code</b>	Niet bruikbaar.
· <b>Transport/verdere gegevens:</b>	
· <b>ADR</b>	
· <b>Beperkte hoeveelheden (LQ)</b>	1L
· <b>Uitgezonderde hoeveelheden (EQ)</b>	Code: E2 Grootste netto hoeveelheid per binnenverpakking: 30 ml Grootste netto hoeveelheid per buitenverpakking: 500 ml
· <b>Vervoerscategorie</b>	2
· <b>Tunnelbeperkingscode</b>	D/E
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	1L
· <b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <b>VN "Model Regulation":</b>	UN 1184 ETHYLEENDICHLORIDE, 3 (6.1), II

## RUBRIEK 15: Regelgeving

- **15.1 Specifieke veiligheids-, gezondheids- en milieureglementen en -wetgeving voor de stof of het mengsel**
- **SZW-lijst van kankerverwekkende stoffen** De stof is aanwezig.
- **SZW-lijst van mutagene stoffen** De stof is niet aanwezig.
- **NIET-limitatieve lijst van voor de voortplanting giftige stoffen - Vruchtbaarheid** De stof is niet aanwezig.
- **NIET-limitatieve lijst van voor de voortplanting giftige stoffen - Ontwikkeling** De stof is niet aanwezig.
- **NIET-limitatieve lijst van voor de voortplanting giftige stoffen - Borstvoeding** De stof is niet aanwezig.
- **Lijst Zeer Zorgwekkende Stoffen (ZZS)** De stof is aanwezig.
- **Lijst van Potentieel Zeer Zorgwekkende Stoffen** De stof is niet aanwezig.
- **Richtlijn 2012/18/EU**
- **Gevaarlijke stoffen die met naam genoemd worden - BIJLAGE I** De stof is niet aanwezig.
- **Seveso-categorie P5c ONTVLAMBARE VLOEISTOFFEN**
- **Drempelwaarde (ton) voor toepassing van voorschriften voor lagedrempelinrichtingen** 5.000 t
- **Drempelwaarde (ton) voor toepassing van voorschriften voor hogedrempelinrichtingen** 50.000 t
- **LIJST VAN AUTORISATIEPLICHTIGE STOFFEN (BIJLAGE XIV)** Sunset date: 2017-11-22
- **Verordening (EG) nr. 1907/2006 BIJLAGE XVII** Beperkingsvoorwaarden: 3, 28, 40
- **Verordening (EU) Nr. 649/2012**  
Annex I Part 1  
Annex I Part 3
- **Richtlijn 2011/65/EU betreffende beperking van het gebruik van bepaalde gevaarlijke stoffen in elektrische en elektronische apparatuur - Bijlage II**  
De stof is niet aanwezig.
- **VERORDENING (EU) 2019/1148**
- **Bijlage I - PRECURSOREN VOOR EXPLOSIEVEN WAARVOOR EEN BEPERKING GELDT (Bovengrenswaarde ten behoeve van vergunningverlening op grond van artikel 5, lid 3)**  
De stof is niet aanwezig.
- **Bijlage II - PRECURSOREN VOOR EXPLOSIEVEN DIE MOETEN WORDEN GEMELD**  
De stof is niet aanwezig.

(Vervolg op blz. 9)

NL



# Veiligheidsinformatieblad

## volgens 1907/2006/EG, Artikel 31

datum van de druk: 26.04.2022

Herziening van: 26.04.2022

**Handelsnaam: 1,2-dichloorethaan**

(Vervolg van blz. 8)

- **Verordening (EG) nr. 273/2004 inzake drugsprecursoren** De stof is niet aanwezig.
  - **Verordening (EG) Nr. 111/2005 houdende voorschriften voor het toezicht op de handel tussen de Gemeenschap en derde landen in drugsprecursoren**  
De stof is niet aanwezig.
  - **Nationale voorschriften:**
  - **Aanwijzingen m.b.t. tewerkstellingsbeperking:**  
Werknemers mogen aan deze gevaarlijke stof niet blootgesteld worden. In uitzonderingsgevallen kan de overheid speciale vergunningen afgeven.
  - **Gevaarklasse v. water:**  
Waterbezwaarlijkheid (NL): Z(1) niet afbreekbare stoffen met gevaarlijke eigenschappen voor mens en milieu (carcinogeniteit/mutageniteit/ reprotoxiciteit/bioaccumulerend vermogen/ toxiciteit of persistentie)
  - **Aanvullende voorschriften, beperkingen en verbodsverordeningen**
- |   |                    |
|---|--------------------|
| · <b>Zeer zorgwekkende stoffen (SVHC) volgens REACH, artikel 57</b> |                    |
| 107-06-2  | 1,2-dichloorethaan |
- **15.2 Chemischeveiligheidsbeoordeling:** Een chemische veiligheidsbeoordeling is niet uitgevoerd.

### RUBRIEK 16: Overige informatie

Deze gegevens zijn gebaseerd op de huidige stand van onze kennis. Zij beschrijven echter geen garantie van produkteigenschappen en vestigen geen contractuele rechtsbetrekking.

#### · Afkortingen en acroniemen:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Ontvlambare vloeistoffen – Categorie 2

Acute Tox. 4: Acute toxiciteit – Categorie 4

Skin Irrit. 2: Huidcorrosie/-irritatie – Categorie 2

Eye Irrit. 2: Ernstig oogletsel/oogirritatie – Categorie 2

Carc. 1B: Kankerverwekkendheid – Categorie 1B

STOT SE 3: Specifieke doelorgaantoxiciteit bij eenmalige blootstelling – Categorie 3



# Käyttöturvallisuustiedote

## 1907/2006/EY, 31 artikla mukainen

Painatuspäivämäärä 26.04.2022

Tarkistus: 26.04.2022

### KOHTA 1: Aineen tai seoksen ja yhtiön tai yrityksen tunnistetiedot

- **1.1 Tuotetunniste**
- **Kauppanimike:** etyleenidikloridi
- **Artikkelinumero:** 13250, 13251
- **CAS-numero:**  
107-06-2
- **EY-numero:**  
203-458-1
- **Indeksinumero:**  
602-012-00-7
- **1.2 Aineen tai seoksen merkitykselliset tunnistetut käytöt ja käytöt, joita ei suositella**  
Merkittäviä lisätietoja ei ole saatavilla.
- **Aineen / valmisteiden käyttö** Laboratoriokemikaalit
- **1.3 Käyttöturvallisuustiedotteen toimittajan tiedot**
- **Valmistaja/toimittaja:**  
Electron Microscopy Sciences  
1560 Industry Road  
USA-Hatfield, PA 19440  
Tel: 215-412-8400 Fax: 215-412-8450  
email: info@emsdiasum.com  
www.emsdiasum.com
- **Tietoja antaa:** Product safety department
- **1.4 Häät puhelinnumero:**  
ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887

### KOHTA 2: Vaaran yksilöinti

- **2.1 Aineen tai seoksen luokitus**
- **Luokitus asetuksen (EY) N:o 1272/2008 mukaisesti**



GHS02 liekki

Flam. Liq. 2 H225 Helposti syttyvä neste ja höyry.



GHS08 terveysvaara

Carc. 1B H350 Saattaa aiheuttaa syöpää.



GHS07

Acute Tox. 4 H302 Haitallista nieltynä.

Skin Irrit. 2 H315 Ärsyttää ihoa.

Eye Irrit. 2 H319 Ärsyttää voimakkaasti silmiä.

STOT SE 3 H335 Saattaa aiheuttaa hengitysteiden ärsytystä.

- **2.2 Merkinnät**
- **Merkinnät asetuksen (EY) N:o 1272/2008 mukaisesti** Aine on luokiteltu ja merkitty CLP-asetuksen mukaan.

(jatkuu sivulla 2)

# Käyttöturvallisuustiedote

## 1907/2006/EY, 31 artikla mukainen

Painatuspäivämäärä 26.04.2022

Tarkistus: 26.04.2022

**Kauppanimike: etyleenidikloridi**

(jatkuu sivulla 1)

**· Varoitusmerkit**


GHS02 GHS07 GHS08

**· Huomiosana Vaara**
**· Vaaralausekkeet**

H225 Helposti syttyvä neste ja höyry.

H302 Haitallista nieltynä.

H315 Ärsyttää ihoa.

H319 Ärsyttää voimakkaasti silmiä.

H350 Saattaa aiheuttaa syöpää.

H335 Saattaa aiheuttaa hengitysteiden ärsytystä.

**· Turvalausekkeet**

P210 Suojaa lämmöltä, kuumilta pinnoilta, kipinöiltä, avotulelta ja muilta sytytyslähteiltä. Tupakointi kielletty.

P241 Käytä räjähdysturvallisia [sähkö/ilmanvaihto/valaisin]laitteita.

P303+P361+P353 JOS KEMIKAALIA JOUTUU IHOLLE (tai hiuksiin): Riisu saastunut vaatetus välittömästi. Huuho iho vedellä [tai suihkuta].

P305+P351+P338 JOS KEMIKAALIA JOUTUU SILMIIN: Huuho huolellisesti vedellä usean minuutin ajan. Poista mahdolliset piilolinssit, jos sen voi tehdä helposti. Jatka huuhtomista.

P405 Varastoi lukitussa tilassa.

P501 Hävitä säiliö(t) noudattaen paikallisia/alueellisia/kansallisia/kansainvälisiä määräyksiä.

**· 2.3 Muut vaarat**
**· PBT- ja vPvB-arvioinnin tulokset**

· **PBT:** Ei voida käyttää.

· **vPvB:** Ei voida käyttää.

### KOHTA 3: Koostumus ja tiedot aineosista

**· 3.1 Kemialliset ominaisuudet: Aineet**
**· CAS-nro. nimike**

107-06-2 etyleenidikloridi

**· Tunnistusnumero(t)**

· **EY-numero:** 203-458-1

· **Indeksinumero:** 602-012-00-7

**· SVHC**

107-06-2	etyleenidikloridi
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### KOHTA 4: Ensiaputoimenpiteet

**· 4.1 Ensiaputoimenpiteiden kuvaus**
**· Yleisohjeet:**

Myrkytysoireet voivat ilmaantua vasta useiden tuntien kuluttua. Tästä syystä henkilöt on pidettävä lääkärin tarkkailun alaisena ainakin 48 tuntia onnettomuuden jälkeen.

· **Hengitetynä:** Tajuton pidettävä ja kuljetettava kyljellään.

· **Ihokosketuksessa:** Pestävä heti vedellä ja saippualla ja huuhdottava hyvin.

**· Aineen päästyä silmiin:**

Silmiä huuhdotaan luomet auki juoksevan veden alla useita minuutteja. Oireiden kestäessä käännytään lääkärin puoleen.

(jatkuu sivulla 3)

# Käyttöturvallisuustiedote

## 1907/2006/EY, 31 artikla mukainen

Painatuspäivämäärä 26.04.2022

Tarkistus: 26.04.2022

**Kauppanimike: etyleenidikloridi**

(jatkuu sivulla 2)

- **Nieltyä:** Saatettava lääkärin hoitoon.
- **4.2 Tärkeimmät oireet ja vaikutukset, sekä välittömät että viivästyneet** Merkittäviä lisätietoja ei ole saatavilla.
- **4.3 Mahdollisesti tarvittavaa välitöntä lääketieteellistä apua ja erityishoitoa koskevat ohjeet** Merkittäviä lisätietoja ei ole saatavilla.

### KOHTA 5: Palontorjuntatoimenpiteet

- **5.1 Sammutusaineet**
- **Sopivat sammutusaineet:**  
CO<sub>2</sub>, kuivakemikaalisammutin tai vesisuihku. Suuremmat palot torjutaan vesisuihkulla tai alkoholeja kestäväällä vaahdolla.
- **5.2 Aineesta tai seoksesta johtuvat erityiset vaarat** Merkittäviä lisätietoja ei ole saatavilla.
- **5.3 Palontorjuntaa koskevat ohjeet**
- **Erityinen suojavarustus:** Erikoistoimenpiteitä ei tarvita.

### KOHTA 6: Toimenpiteet onnettomuuspäästöissä

- **6.1 Varotoimenpiteet, henkilösuojaimet ja menettely hätätilanteessa**  
Käytettävä suojavarustusta. Suojautumattomat henkilöt pidettävä loitolla.
- **6.2 Ympäristöön kohdistuvat varotoimet:**  
Ohennettava runsaalla vedellä.  
Estettävä pääsy viemäreihin/pintavesiin/pohjaveteen.
- **6.3 Suojarakenteita ja puhdistusta koskevat menetelmät ja -välineet:**  
Imettävä nestettä sitovalla aineella (hiekkä, piimaa, hapon sidosaine, yleisidosaine, sahajauho).  
Saastunut aine on jätteenä hävitettävä kohdan 13 mukaisesti.  
Huolehdittava riittävästä tuuleuksesta.
- **6.4 Viittaukset muihin kohtiin**  
Turvallista käsittelyä koskevia ohjeita kappaleessa 7.  
Henkilökohtaista suojavarustusta koskevia ohjeita kappaleessa 8.  
Aineen hävitystä koskevia ohjeita kappaleessa 13.

### KOHTA 7: Käsittely ja varastointi

- **7.1 Turvallisen käsittelyn edellyttämät toimenpiteet** Säiliöt avattava ja käsiteltävä varovasti.
- **Palo- ja räjähdysuojaohjeet:**  
Eristettävä sytytyslähteistä - tupakanpolto kielletty.  
Suoritettava toimenpiteet sähköstaattista latausta vastaan.  
Pidettävä hengityssuojain käyttövalmiina.
- **7.2 Turvallisen varastoinnin edellyttämät olosuhteet, mukaan luettuina yhteensopimattomuudet**
- **Varastointi:**
- **Varastotiloille ja säiliöille asetettavat vaatimukset:** Säilytettävä viileässä paikassa.
- **Yhteisvarastointiohjeet:** Ei tarvita.
- **Lisätietoja varastointiehtoihin:**  
Astiat on pidettävä tiiviisti suljettuina.  
Varastoitava hyvin suljetuissa astioissa viileässä ja kuivassa paikassa.
- **7.3 Erityinen loppukäyttö** Merkittäviä lisätietoja ei ole saatavilla.

FI

(jatkuu sivulla 4)

# Käyttöturvallisuustiedote

## 1907/2006/EY, 31 artikla mukainen

Painatuspäivämäärä 26.04.2022

Tarkistus: 26.04.2022

Kauppanimike: etyleenidikloridi

(jatkuu sivulla 3)

### KOHTA 8: Altistumisen ehkäiseminen ja henkilösuojaimet

- 8.1 Valvontaa koskevat muuttujat
- Lisäohjeita teknisten laitteiden varustukseen: Ei muita tietoja, ks. kohta 7.

· Aineosat työpaikkakohtaisin valvottavin raja-arvoin:

#### 107-06-2 etyleenidikloridi

HTP	Lyhytaikaisarvo: 20 mg/m <sup>3</sup> , 5 ppm Pitkäaikaisarvo: 4 8,2* mg/m <sup>3</sup> , 1 2* ppm iho; *situvat raja-arvot
-----	---

- Lisäohjeet: Tiedot perustuvat valmistushetkellä voimassaoleviin luetteluihin.

#### · 8.2 Altistumisen ehkäiseminen

· Henkilökohtainen suojavarustus:

· Yleiset suoja- ja hygienia-toimenpiteet:

Pidettävä loitolla elintarvikkeista, juomista ja rehuista.  
Likaantuneet, aineen saastuttamat vaatekappaleet on riisuttava välittömästi.  
Kädet on pestävä ennen taukoja ja työn päätyttyä.  
Suoja-vaatetus on säilytettävä erikseen.  
Vältettävä ihokosketusta ja kosketusta silmiin.

· Hengityssuoja:

Lyhytaikaisessa tai vähäisessä altistuksessa hengityssuojasuodin; intensiivisessä tai pitempiaikaisessa rasituksessa ulkoilmasta riippumaton hengityssuojain.

· Käsisuojaus:



Suojakäsineet

Käsinemateriaalin tulee olla tuotetta/ainetta/valmistetta kestävä ja läpäisemätöntä.

Puuttuvien testien vuoksi suositusta soveltuvasta suojakäsinemateriaalista tuotteelle/ valmisteelle / kemikaalisekoitteelle ei voida antaa.

Suojakäsinemateriaalin valinnassa on otettava huomioon läpäisyajat, läpäisevyyskerroin ja kuluminen.

· Käsinemateriaali

Soveltuvan käsinetyypin valikoima ei riipu yksinomaan materiaalista vaan myös muista laatuominaisuuksista ja vaihtelee eri valmistajilla.

· Käsinemateriaalin läpäisy aika

Tarkka läpäisy aika on selvitettävä suojakäsinevalmistajalta ja sitä on noudatettava.

· Silmäsuojus:



Tiiviit suojalasit

### KOHTA 9: Fysikaaliset ja kemialliset ominaisuudet

· 9.1 Fysikaalisia ja kemiallisia perusominaisuuksia koskevat tiedot

· Yleiset ohjeet

· Olomuoto:

Muoto: Öljyinen

Väri: Väritön

· Haju: Miellyttävä

(jatkuu sivulla 5)

# Käyttöturvallisuustiedote

## 1907/2006/EY, 31 artikla mukainen

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Tarkistus: 26.04.2022

**Kauppanimike: etyleenidikloridi**

(jatkuu sivulla 4)

· <b>Hajukynnys:</b>	Ei määrätty.
· <b>pH-arvo:</b>	Ei määrätty.
· <b>Tilanmuutos</b> Sulamis- tai jäätymispiste:	-35,5 °C
Kiehumispiste ja kiehumisalue:	83,5 °C
· <b>Leimahduspiste:</b>	13 °C
· <b>Syttyvyys (kiinteät aineet, kaasut):</b>	Ei voida käyttää.
· <b>Syttymislämpötila:</b>	413-440 °C
· <b>Hajoamislämpötila:</b>	Ei määrätty.
· <b>Itsesyttymislämpötila:</b>	Ei määrätty.
· <b>Räjähähtävyys:</b>	Tuote ei ole räjähdysvaarallinen, kuitenkin räjähdysvaarallisten höyry-/ilmaseosten muodostuminen mahdollista.
· <b>Räjähdysrajat:</b> Alempi:	6,2 Vol %
Ylempi:	15,9 Vol %
· <b>Höyrypaine 20 °C lämpötilassa:</b>	87 hPa
· <b>Tiheys 20 °C lämpötilassa:</b>	1,24 g/cm <sup>3</sup>
· <b>Suhteellinen tiheys</b>	Ei määrätty.
· <b>Höyryntiheys:</b>	Ei määrätty.
· <b>Haihtumisnopeus:</b>	Ei määrätty.
· <b>Liukenevuus/sekoittuvuus veteen 20 °C lämpötilassa:</b>	8 g/l
· <b>Jakautumiskerroin: n-oktanoli/vesi:</b>	Ei määrätty.
· <b>Viskositeetti:</b> Dynaaminen 20 °C lämpötilassa:	0,8 mPas
Kinemaattinen:	Ei määrätty.
· <b>9.2 Muut tiedot</b>	Merkittäviä lisätietoja ei ole saatavilla.

### KOHTA 10: Stabiilisuus ja reaktiivisuus

- **10.1 Reaktiivisuus** Merkittäviä lisätietoja ei ole saatavilla.
- **10.2 Kemiallinen stabiilisuus**
- **Terminen hajoavuus / vältettävät olosuhteet:** Ei hajoantumista määräystenmukaisessa käytössä.
- **10.3 Vaarallisten reaktioiden mahdollisuus** Ei tiedossa vaarallisia reaktioita.
- **10.4 Vältettävät olosuhteet** Merkittäviä lisätietoja ei ole saatavilla.
- **10.5 Yhteensopimattomat materiaalit:** Merkittäviä lisätietoja ei ole saatavilla.
- **10.6 Vaaralliset hajoamistuotteet:** Tiedossa ei ole vaarallisia hajoamistuotteita.

### KOHTA 11: Myrkyllisyyteen liittyvät tiedot

- **11.1 Tiedot myrkyllisistä vaikutuksista**
- **Välitön myrkyllisyys**  
Haitallista nieltynä.

(jatkuu sivulla 6)

# Käyttöturvallisuustiedote

## 1907/2006/EY, 31 artikla mukainen

Painatuspäivämäärä 26.04.2022

Tarkistus: 26.04.2022

**Kauppanimike: etyleenidikloridi**

(jatkuu sivulla 5)

· **Luokittelurelevantti LD/LC50-arvot:**

Oraali	LD50	670 mg/kg (rat)
Dermaali	LD50	2.800 mg/kg (rat)

· **Ensisijainen ärsyttävä vaikutus:**

· **Ihosityttövyys/ihoärsytys**

Ärsyttää ihoa.

· **Vakava silmävaurio/silmä-ärsytys**

Ärsyttää voimakkaasti silmiä.

· **Hengitysteiden tai ihon herkistyminen** Saatavilla olevien tietojen perusteella luokituskriteerit eivät täyty.

· **Toksikologia lisätietoja:**

· **CMR-vaikutukset eli syöpää aiheuttavat, perimää vaurioittavat ja lisääntymiselle vaaralliset vaikutukset**

· **Sukusolujen perimää vaurioittavat vaikutukset** Saatavilla olevien tietojen perusteella luokituskriteerit eivät täyty.

· **Syöpää aiheuttavat vaikutukset**

Saattaa aiheuttaa syöpää.

· **Lisääntymiselle vaaralliset vaikutukset** Saatavilla olevien tietojen perusteella luokituskriteerit eivät täyty.

· **Elinkohtainen myrkyllisyys – kerta-altistuminen**

Saattaa aiheuttaa hengitysteiden ärsytystä.

· **Elinkohtainen myrkyllisyys – toistuva altistuminen**

Saatavilla olevien tietojen perusteella luokituskriteerit eivät täyty.

· **Aspiraatiovaara** Saatavilla olevien tietojen perusteella luokituskriteerit eivät täyty.

### KOHTA 12: Tiedot vaarallisuudesta ympäristölle

· **12.1 Myrkyllisyys**

· **Vesimyrkyllisyys:** Merkittäviä lisätietoja ei ole saatavilla.

· **12.2 Pysyvyys ja hajoavuus** Merkittäviä lisätietoja ei ole saatavilla.

· **12.3 Biokertyvyys** Merkittäviä lisätietoja ei ole saatavilla.

· **12.4 Liikkuvuus maaperässä** Merkittäviä lisätietoja ei ole saatavilla.

· **Ekologia lisätietoja:**

· **Yleisohjeita:**

Vesistövaarallisuusluokka 3 (listaluokitus): voimakkaasti vesistöä vaarantava

Estetään pääsy pohjaveteen, vesistöihin, viemäristöön; myöskin pieninä määrinä.

Juomavesi vaaraantuu jo pieninten määrien päästessä maaperään.

· **12.5 PBT- ja vPvB-arvioinnin tulokset**

· **PBT:** Ei voida käyttää.

· **vPvB:** Ei voida käyttää.

· **12.6 Muut haitalliset vaikutukset** Merkittäviä lisätietoja ei ole saatavilla.

### KOHTA 13: Jätteiden käsittelyyn liittyvät näkökohdat

· **13.1 Jätteiden käsittelymenetelmät**

· **Suositus:** Ei voida hävittää yhdessä talousjätteiden kanssa. Ei saa päästää viemäristöön.

· **Puhdistamattomat pakkaukset:**

· **Suositus:** Hävitettävä virallisten määräysten mukaisesti.

· **Suosittelava puhdistusaine:** Vesi, johon tarvittaessa lisätään puhdistusaineita.

FI

(jatkuu sivulla 7)

# Käyttöturvallisuustiedote

## 1907/2006/EY, 31 artikla mukainen




Painatuspäivämäärä 26.04.2022

Tarkistus: 26.04.2022

Kauppanimike: etyleenidikloridi

(jatkuu sivulla 6)

### KOHTA 14: Kuljetustiedot

<ul style="list-style-type: none"> <li>· 14.1 YK-numero</li> <li>· ADR, IMDG, IATA</li> </ul>	<p>UN1184</p>
<ul style="list-style-type: none"> <li>· 14.2 Kuljetuksessa käytettävä virallinen nimi</li> <li>· ADR</li> <li>· IMDG</li> <li>· IATA</li> </ul>	<p>1184 ETYLEENIDIKLORIDI ETHYLENE DICHLORIDE, MARINE POLLUTANT ETHYLENE DICHLORIDE</p>
<ul style="list-style-type: none"> <li>· 14.3 Kuljetuksen vaaraluokka</li> <li>· ADR</li> </ul>	
<ul style="list-style-type: none"> <li>· luokka</li> <li>· Lipuke</li> </ul>	<p>3 Palavat nesteet 3+6.1</p>
<ul style="list-style-type: none"> <li>· IMDG</li> </ul>	
<ul style="list-style-type: none"> <li>· Class</li> <li>· Label</li> </ul>	<p>3 Palavat nesteet 3/6.1</p>
<ul style="list-style-type: none"> <li>· IATA</li> </ul>	
<ul style="list-style-type: none"> <li>· Class</li> <li>· Label</li> </ul>	<p>3 Palavat nesteet 3 (6.1)</p>
<ul style="list-style-type: none"> <li>· 14.4 Pakkausryhmä</li> <li>· ADR, IMDG, IATA</li> </ul>	<p>II</p>
<ul style="list-style-type: none"> <li>· 14.5 Ympäristövaarat:</li> <li>· Marine pollutant:</li> </ul>	<p>Symboli (kala ja puu)</p>
<ul style="list-style-type: none"> <li>· 14.6 Erityiset varotoimet käyttäjälle</li> <li>· Vaaran tunnus-nro (Kemler-luku):</li> <li>· EMS-numero:</li> <li>· Segregation groups</li> <li>· Stowage Category</li> <li>· Stowage Code</li> </ul>	<p>Varoitus: Palavat nesteet 336 F-E, S- Liquid halogenated hydrocarbons B SW2 Clear of living quarters.</p>
<ul style="list-style-type: none"> <li>· 14.7 Kuljetus irtolastina Marpol-sopimuksen II liitteen ja IBC-säännösten mukaisesti</li> </ul>	<p>Ei voida käyttää.</p>
<ul style="list-style-type: none"> <li>· Kuljetus/lisätietoja:</li> </ul>	
<ul style="list-style-type: none"> <li>· ADR</li> <li>· Rajoitetut määrät (LQ)</li> </ul>	<p>1L</p>

(jatkuu sivulla 8)

# Käyttöturvallisuustiedote

## 1907/2006/EY, 31 artikla mukainen

Painatuspäivämäärä 26.04.2022

Tarkistus: 26.04.2022

Kauppanimike: etyleenidikloridi

(jatkuu sivulla 7)

· Poikkeusmäärät (EQ)	Koodi: E2 Enimmäisnettomäärä sisäpakkausta kohti: 30 ml Enimmäisnettomäärä ulkopakkausta kohti: 500 ml
· Kuljetuskategoria	2
· Tunnelirajoituskoodi:	D/E
· IMDG	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 1184 ETYLEENIDIKLORIDI, 3 (6.1), II

### KOHTA 15: Lainsäädäntöä koskevat tiedot

- 15.1 Nimenomaisesti ainetta tai seosta koskevat turvallisuus-, terveys- ja ympäristösäännökset tai -lainsäädäntö
- Direktiivi 2012/18/EU
- Nimetyt vaaralliset aineet - LIITE I Aine ei sisälly
- Seveso-luokka P5c SYTTYVÄT NESTEET
- Soveltamisen vähimmäismäärät (tonneina) alemman tason vaatimukset 5.000 t
- Soveltamisen vähimmäismäärät (tonneina) ylemmän tason vaatimukset 50.000 t
- LUVANVARAISTEN AINEIDEN LUETTELO (LIITE XIV) Sunset date: 2017-11-22
- NEUVOSTON ASETUS (EY) N:o 1907/2006 LIITE XVII Rajoitusehdot: 3, 28, 40
- Neuvoston Asetus (EU) N:o 649/2012  
Annex I Part 1  
Annex I Part 3
- Direktiivi 2011/65/EU tiettyjen vaarallisten aineiden käytön rajoittamisesta sähkö- ja elektroniikkalaitteissa -  
Liite II  
Aine ei sisälly
- ASETUS (EU) 2019/1148
- Liite I - RAJOITETUT RÄJÄHTEIDEN LÄHTÖAINEET (Yläraja-arvo lupien myöntämiseksi 5 artiklan 3 kohdan mukaisesti)  
Aine ei sisälly
- Liite II - ILMOITETTAVAT RÄJÄHTEIDEN LÄHTÖAINEET Aine ei sisälly
- Asetus (EY) N:o 273/2004 huumausaineiden lähtöaineista Aine ei sisälly
- Asetus (EY) N:o 111/2005 yhteisön ja kolmansien maiden välisen huumausaineiden lähtöaineiden kaupan valvontaa koskevista säännöistä  
Aine ei sisälly
- Kansalliset määräykset:
- Työskenteleyä rajoittavat huomautukset:  
Työntekijöitä ei saa altistaa tälle vaaralliselle aineelle. Virastot voivat erikoistapauksessa antaa poikkeusluvan.
- Muut määräykset, rajoitukset ja kiellot
- Erityistä huolta aiheuttavat aineet (SVHC) mukainen REACH, 57 artiklan  
107-06-2 etyleenidikloridi
- 15.2 Kemikaaliturvallisuusarviointi: Kemikaaliturvallisuusarviointia ei ole tehty.

FI

(jatkuu sivulla 9)



# Käyttöturvallisuustiedote

## 1907/2006/EY, 31 artikla mukainen

Painatuspäivämäärä 26.04.2022

Tarkistus: 26.04.2022

**Kauppanimike: etyleenidikloridi**

(jatkuu sivulla 8)

### KOHTA 16: Muut tiedot

Annetut tiedot perustuvat tämänhetkisiin tietoihimme. Ne eivät kuitenkaan anna takuuta tuotteen ominaisuuksista eivätkä aikaansaa sopimuksellista oikeussuhdetta.

**· Lyhenteet ja lyhytnimet:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Syttyvät nesteet – Katgoria 2

Acute Tox. 4: Välitön myrkyllisyys – Katgoria 4

Skin Irrit. 2: Ihosyövyttävyyys/ihoärsytys – Katgoria 2

Eye Irrit. 2: Vakava silmävaurio/silmä-ärsytys – Katgoria 2

Carc. 1B: Syöpää aiheuttavat vaikutukset – Katgoria 1B

STOT SE 3: Elinkohtainen myrkyllisyys (kerta-altistuminen) – Katgoria 3

# Fiche de données de sécurité

## selon 1907/2006/CE, Article 31

Date d'impression : 26.04.2022

Révision: 26.04.2022

### RUBRIQUE 1: Identification de la substance/du mélange et de la société/l'entreprise

· **1.1 Identificateur de produit**

· **Nom du produit:** 1,2-dichloroéthane

· **Code du produit:** 13250, 13251

· **No CAS:**

107-06-2

· **Numéro CE:**

203-458-1

· **Numéro index:**

602-012-00-7

· **1.2 Utilisations identifiées pertinentes de la substance ou du mélange et utilisations déconseillées**

*Pas d'autres informations importantes disponibles.*

· **Emploi de la substance / de la préparation** Produits chimiques pour laboratoires

· **1.3 Renseignements concernant le fournisseur de la fiche de données de sécurité**

· **Producteur/fournisseur:**

Electron Microscopy Sciences

1560 Industry Road

USA-Hatfield, PA 19440

Tel: 215-412-8400 Fax: 215-412-8450

email: [info@emsdiasum.com](mailto:info@emsdiasum.com)

[www.emsdiasum.com](http://www.emsdiasum.com)

· **Service chargé des renseignements:** Product safety department

· **1.4 Numéro d'appel d'urgence:**

ChemTrec 1-800-424-9300 Contract CCN7661

1-703-527-3887

### RUBRIQUE 2: Identification des dangers

· **2.1 Classification de la substance ou du mélange**

· **Classification selon le règlement (CE) n° 1272/2008**



GHS02 flamme

Flam. Liq. 2 H225 Liquide et vapeurs très inflammables.



GHS08 danger pour la santé

Carc. 1B H350 Peut provoquer le cancer.



GHS07

Acute Tox. 4 H302 Nocif en cas d'ingestion.

Skin Irrit. 2 H315 Provoque une irritation cutanée.

Eye Irrit. 2 H319 Provoque une sévère irritation des yeux.

STOT SE 3 H335 Peut irriter les voies respiratoires.

· **2.2 Éléments d'étiquetage**

· **Étiquetage selon le règlement (CE) n° 1272/2008** La substance est classifiée et étiquetée selon le règlement CLP.

(suite page 2)

# Fiche de données de sécurité

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Nom du produit: 1,2-dichloroéthane

(suite de la page 1)

· **Pictogrammes de danger**

GHS02 GHS07 GHS08

· **Mention d'avertissement** Danger· **Mentions de danger**

H225 Liquide et vapeurs très inflammables.

H302 Nocif en cas d'ingestion.

H315 Provoque une irritation cutanée.

H319 Provoque une sévère irritation des yeux.

H350 Peut provoquer le cancer.

H335 Peut irriter les voies respiratoires.

· **Conseils de prudence**

P210 Tenir à l'écart de la chaleur, des surfaces chaudes, des étincelles, des flammes nues et de toute autre source d'inflammation. Ne pas fumer.

P241 Utiliser du matériel [électrique/de ventilation/d'éclairage] antidéflagrant.

P303+P361+P353 EN CAS DE CONTACT AVEC LA PEAU (ou les cheveux): Enlever immédiatement tous les vêtements contaminés. Rincer la peau à l'eau [ou se doucher].

P305+P351+P338 EN CAS DE CONTACT AVEC LES YEUX: Rincer avec précaution à l'eau pendant plusieurs minutes. Enlever les lentilles de contact si la victime en porte et si elles peuvent être facilement enlevées. Continuer à rincer.

P405 Garder sous clef.

P501 Éliminer le contenu/récipient conformément à la réglementation locale/régionale/nationale/internationale.

· **2.3 Autres dangers**· **Résultats des évaluations PBT et vPvB**· **PBT:** Non applicable.· **vPvB:** Non applicable.

### RUBRIQUE 3: Composition/informations sur les composants

· **3.1 Caractérisation chimique: Substances**· **No CAS Désignation**

107-06-2 1,2-dichloroéthane

· **Code(s) d'identification**· **Numéro CE:** 203-458-1· **Numéro index:** 602-012-00-7· **SVHC**

107-06-2 | 1,2-dichloroéthane

### RUBRIQUE 4: Premiers secours

· **4.1 Description des premiers secours**· **Remarques générales:**

Les symptômes d'intoxication peuvent apparaître après de nombreuses heures seulement; une surveillance médicale est donc nécessaire au moins 48 heures après un accident.

· **Après inhalation:** En cas d'inconscience, coucher et transporter la personne en position latérale stable.

· **Après contact avec la peau:** Laver immédiatement à l'eau et au savon et bien rincer.

(suite page 3)

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**Nom du produit: 1,2-dichloroéthane**

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- **Après contact avec les yeux:**  
Rincer les yeux, pendant plusieurs minutes, sous l'eau courante en écartant bien les paupières. Si les troubles persistent, consulter un médecin.
- **Après ingestion:** Consulter immédiatement un médecin.
- **4.2 Principaux symptômes et effets, aigus et différés** Pas d'autres informations importantes disponibles.
- **4.3 Indication des éventuels soins médicaux immédiats et traitements particuliers nécessaires**  
Pas d'autres informations importantes disponibles.

### RUBRIQUE 5: Mesures de lutte contre l'incendie

- **5.1 Moyens d'extinction**
- **Moyens d'extinction:**  
CO<sub>2</sub>, poudre d'extinction ou eau pulvérisée. Combattre les foyers importants avec de l'eau pulvérisée ou de la mousse résistant à l'alcool.
- **5.2 Dangers particuliers résultant de la substance ou du mélange**  
Pas d'autres informations importantes disponibles.
- **5.3 Conseils aux pompiers**
- **Équipement spécial de sécurité:** Aucune mesure particulière n'est requise.

### RUBRIQUE 6: Mesures à prendre en cas de dispersion accidentelle

- **6.1 Précautions individuelles, équipement de protection et procédures d'urgence**  
Porter un équipement de sécurité. Eloigner les personnes non protégées.
- **6.2 Précautions pour la protection de l'environnement:**  
Diluer avec beaucoup d'eau.  
Ne pas rejeter dans les canalisations, dans les eaux de surface et dans les nappes d'eau souterraines.
- **6.3 Méthodes et matériel de confinement et de nettoyage:**  
Recueillir les liquides à l'aide d'un produit absorbant (sable, kieselguhr, neutralisant d'acide, liant universel, sciure).  
Évacuer les matériaux contaminés en tant que déchets conformément au point 13.  
Assurer une aération suffisante.
- **6.4 Référence à d'autres rubriques**  
Afin d'obtenir des informations pour une manipulation sûre, consulter le chapitre 7.  
Afin d'obtenir des informations sur les équipements de protection personnels, consulter le chapitre 8.  
Afin d'obtenir des informations sur l'élimination, consulter le chapitre 13.

### RUBRIQUE 7: Manipulation et stockage

- **7.1 Précautions à prendre pour une manipulation sans danger**  
Ouvrir et manipuler les récipients avec précaution.
- **Préventions des incendies et des explosions:**  
Tenir à l'abri des sources d'inflammation - ne pas fumer.  
Prendre des mesures contre les charges électrostatiques.  
Tenir des appareils de protection respiratoire prêts.
- **7.2 Conditions d'un stockage sûr, y compris d'éventuelles incompatibilités**
- **Stockage:**
- **Exigences concernant les lieux et conteneurs de stockage:** Stocker dans un endroit frais.
- **Indications concernant le stockage commun:** Pas nécessaire.
- **Autres indications sur les conditions de stockage:**  
Tenir les emballages hermétiquement fermés.  
Stocker au frais et au sec dans des fûts bien fermés.

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· 7.3 Utilisation(s) finale(s) particulière(s) Pas d'autres informations importantes disponibles.

### RUBRIQUE 8: Contrôles de l'exposition/protection individuelle

- **8.1 Paramètres de contrôle**
- **Indications complémentaires pour l'agencement des installations techniques:**  
Sans autre indication, voir point 7.

- **Composants présentant des valeurs-seuil à surveiller par poste de travail:**

#### 107-06-2 1,2-dichloroéthane

VLEP	Valeur à long terme: 8,2 mg/m <sup>3</sup> , 2,00 ppm
	CIB, risque de pénétration percutanée

- **Remarques supplémentaires:**  
Le présent document s'appuie sur les listes en vigueur au moment de son élaboration.
- **8.2 Contrôles de l'exposition**
- **Équipement de protection individuel:**
- **Mesures générales de protection et d'hygiène:**  
Tenir à l'écart des produits alimentaires, des boissons et de la nourriture pour animaux.  
Retirer immédiatement les vêtements souillés ou humectés.  
Se laver les mains avant les pauses et en fin de travail.  
Conserver à part les vêtements de protection.  
Éviter tout contact avec les yeux et avec la peau.
- **Protection respiratoire:**  
En cas d'exposition faible ou de courte durée, utiliser un filtre respiratoire; en cas d'exposition intense ou durable, utiliser un appareil de respiration indépendant de l'air ambiant.
- **Protection des mains:**



Gants de protection

Le matériau des gants doit être imperméable et résistant au produit / à la substance / à la préparation.  
À cause du manque de tests, aucune recommandation pour un matériau de gants pour le produit / la préparation / le mélange de produits chimiques ne peut être donnée.  
Choix du matériau des gants en fonction des temps de pénétration, du taux de perméabilité et de la dégradation.

- **Matériau des gants**  
Le choix de gants appropriés ne dépend pas seulement du matériau, mais également d'autres critères de qualité qui peuvent varier d'un fabricant à l'autre.
- **Temps de pénétration du matériau des gants**  
Le temps de pénétration exact est à déterminer par le fabricant des gants de protection et à respecter.
- **Protection des yeux:**



Lunettes de protection hermétiques

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### RUBRIQUE 9: Propriétés physiques et chimiques

#### · 9.1 Informations sur les propriétés physiques et chimiques essentielles

##### · Indications générales

##### · Aspect:

*Forme:* Huileuse

*Couleur:* Incolore

· *Odeur:* Agréable

· *Seuil olfactif:* Non déterminé.

· *valeur du pH:* Non déterminé.

##### · Changement d'état

*Point de fusion/point de congélation:* -35,5 °C

*Point initial d'ébullition et intervalle d'ébullition:* 83,5 °C

· *Point d'éclair* 13 °C

· *Inflammabilité (solide, gaz):* Non applicable.

· *Température d'inflammation:* 413-440 °C

· *Température de décomposition:* Non déterminé.

· *Température d'auto-inflammabilité:* Non déterminé.

· *Propriétés explosives:* Le produit n'est pas explosif; toutefois, des mélanges explosifs vapeur-air peuvent se former.

##### · Limites d'explosion:

*Inférieure:* 6,2 Vol %

*Supérieure:* 15,9 Vol %

· *Pression de vapeur à 20 °C:* 87 hPa

· *Densité à 20 °C:* 1,24 g/cm<sup>3</sup>

· *Densité relative* Non déterminé.

· *Densité de vapeur:* Non déterminé.

· *Taux d'évaporation:* Non déterminé.

##### · Solubilité dans/miscibilité avec

*l'eau à 20 °C:* 8 g/l

· *Coefficient de partage: n-octanol/eau:* Non déterminé.

##### · Viscosité:

*Dynamique à 20 °C:* 0,8 mPas

*Cinématique:* Non déterminé.

· 9.2 Autres informations Pas d'autres informations importantes disponibles.

### RUBRIQUE 10: Stabilité et réactivité

· 10.1 Réactivité Pas d'autres informations importantes disponibles.

· 10.2 Stabilité chimique

· *Décomposition thermique/conditions à éviter:* Pas de décomposition en cas d'usage conforme.

· 10.3 Possibilité de réactions dangereuses Aucune réaction dangereuse connue.

· 10.4 Conditions à éviter Pas d'autres informations importantes disponibles.

· 10.5 Matières incompatibles: Pas d'autres informations importantes disponibles.

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· **10.6 Produits de décomposition dangereux:** Pas de produits de décomposition dangereux connus

### RUBRIQUE 11: Informations toxicologiques

· **11.1 Informations sur les effets toxicologiques**· **Toxicité aiguë**

Nocif en cas d'ingestion.

· **Valeurs LD/LC50 déterminantes pour la classification:**

Oral	LD50	670 mg/kg (rat)
Dermique	LD50	2.800 mg/kg (rat)

· **Effet primaire d'irritation:**· **Corrosion cutanée/irritation cutanée**

Provoque une irritation cutanée.

· **Lésions oculaires graves/irritation oculaire**

Provoque une sévère irritation des yeux.

· **Sensibilisation respiratoire ou cutanée**

Compte tenu des données disponibles, les critères de classification ne sont pas remplis.

· **Indications toxicologiques complémentaires:**· **Effets CMR (cancérogène, mutagène et toxique pour la reproduction)**· **Mutagénicité sur les cellules germinales**

Compte tenu des données disponibles, les critères de classification ne sont pas remplis.

· **Cancérogénicité**

Peut provoquer le cancer.

· **Toxicité pour la reproduction**

Compte tenu des données disponibles, les critères de classification ne sont pas remplis.

· **Toxicité spécifique pour certains organes cibles - exposition unique**

Peut irriter les voies respiratoires.

· **Toxicité spécifique pour certains organes cibles - exposition répétée**

Compte tenu des données disponibles, les critères de classification ne sont pas remplis.

· **Danger par aspiration** Compte tenu des données disponibles, les critères de classification ne sont pas remplis.

### RUBRIQUE 12: Informations écologiques

· **12.1 Toxicité**· **Toxicité aquatique:** Pas d'autres informations importantes disponibles.· **12.2 Persistance et dégradabilité** Pas d'autres informations importantes disponibles.· **12.3 Potentiel de bioaccumulation** Pas d'autres informations importantes disponibles.· **12.4 Mobilité dans le sol** Pas d'autres informations importantes disponibles.· **Autres indications écologiques:**· **Indications générales:**

Catégorie de pollution des eaux 3 (D) (classification selon liste): très polluant

Ne pas laisser pénétrer dans la nappe phréatique, les eaux ou les canalisations, même pas en petite quantité.

Danger pour l'eau potable dès fuite d'une quantité minime dans le sous-sol.

· **12.5 Résultats des évaluations PBT et VPVB**· **PBT:** Non applicable.· **vPvB:** Non applicable.· **12.6 Autres effets néfastes** Pas d'autres informations importantes disponibles.

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### RUBRIQUE 13: Considérations relatives à l'élimination

- **13.1 Méthodes de traitement des déchets**
- **Recommandation:** Ne doit pas être évacué avec les ordures ménagères. Ne pas laisser pénétrer dans les égouts.
- **Emballages non nettoyés:**
- **Recommandation:** Evacuation conformément aux prescriptions légales.
- **Produit de nettoyage recommandé:** Eau, éventuellement avec des produits de nettoyage

### RUBRIQUE 14: Informations relatives au transport

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>· <b>14.1 Numéro ONU</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>   | UN1184  |
| <ul style="list-style-type: none"> <li>· <b>14.2 Désignation officielle de transport de l'ONU</b></li> <li>· <b>ADR</b></li> <li>· <b>IMDG</b></li> <li>· <b>IATA</b></li> </ul>                                     | 1184 DICHLORURE D'ÉTHYLÈNE<br>ETHYLENE DICHLORIDE, MARINE POLLUTANT<br>ETHYLENE DICHLORIDE  |
| <ul style="list-style-type: none"> <li>· <b>14.3 Classe(s) de danger pour le transport</b></li> <li>· <b>ADR</b></li> </ul>  | <div style="display: flex; align-items: center; gap: 10px;">   </div> <p style="margin-top: 10px;"> <ul style="list-style-type: none"> <li>· <b>Classe</b></li> <li>· <b>Étiquette</b></li> </ul> </p>  |
| <ul style="list-style-type: none"> <li>· <b>IMDG</b></li> </ul>  | <div style="display: flex; align-items: center; gap: 10px;">    </div> <p style="margin-top: 10px;"> <ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul> </p> |
| <ul style="list-style-type: none"> <li>· <b>IATA</b></li> </ul>  | <div style="display: flex; align-items: center; gap: 10px;">   </div> <p style="margin-top: 10px;"> <ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul> </p>   |
| <ul style="list-style-type: none"> <li>· <b>14.4 Groupe d'emballage</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>   | II  |
| <ul style="list-style-type: none"> <li>· <b>14.5 Dangers pour l'environnement:</b></li> <li>· <b>Marine Pollutant:</b></li> </ul>  | Signe conventionnel (poisson et arbre)  |
| <ul style="list-style-type: none"> <li>· <b>14.6 Précautions particulières à prendre par l'utilisateur</b></li> <li>· <b>Numéro d'identification du danger (Indice Kemler):</b></li> <li>· <b>No EMS:</b></li> </ul> | Attention: Liquides inflammables.<br>336<br>F-E, S-   |

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· Segregation groups	Liquid halogenated hydrocarbons
· Stowage Category	B
· Stowage Code	SW2 Clear of living quarters.
· 14.7 Transport en vrac conformément à l'annexe II de la convention Marpol et au recueil IBC	Non applicable.
· Indications complémentaires de transport:	
· ADR	
· Quantités limitées (LQ)	IL
· Quantités exceptées (EQ)	Code: E2 Quantité maximale nette par emballage intérieur: 30 ml Quantité maximale nette par emballage extérieur: 500 ml
· Catégorie de transport	2
· Code de restriction en tunnels	D/E
· IMDG	
· Limited quantities (LQ)	IL
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· "Règlement type" de l'ONU:	UN 1184 DICHLORURE D'ÉTHYLÈNE, 3 (6.1), II

### RUBRIQUE 15: Informations relatives à la réglementation

- 15.1 Réglementations/législation particulières à la substance ou au mélange en matière de sécurité, de santé et d'environnement
- Directive 2012/18/UE
- Substances dangereuses désignées - ANNEXE I la substance n'est pas comprise
- Catégorie SEVESO P5c LIQUIDES INFLAMMABLES
- Quantité seuil (tonnes) pour l'application des exigences relatives au seuil bas 5.000 t
- Quantité seuil (tonnes) pour l'application des exigences relatives au seuil haut 50.000 t
- LISTE DES SUBSTANCES SOUMISES À AUTORISATION (ANNEXE XIV) Sunset date: 2017-11-22
- RÈGLEMENT (CE) N° 1907/2006 ANNEXE XVII Conditions de limitation: 3, 28, 40
- Règlement (CE) N° 649/2012  
Annex I Part 1  
Annex I Part 3
- Directive 2011/65/UE relative à la limitation de l'utilisation de certaines substances dangereuses dans les équipements électriques et électroniques – Annexe II  
la substance n'est pas comprise
- RÈGLEMENT (UE) 2019/1148
- Annexe I - PRÉCURSEURS D'EXPLOSIFS FAISANT L'OBJET DE RESTRICTIONS (Valeur limite maximale aux fins de l'octroi d'une licence en vertu de l'article 5, paragraphe 3)  
la substance n'est pas comprise
- Annexe II - PRÉCURSEURS D'EXPLOSIFS DEVANT FAIRE L'OBJET D'UN SIGNALEMENT  
la substance n'est pas comprise
- Règlement (CE) n° 273/2004 relatif aux précurseurs de drogues la substance n'est pas comprise
- Règlement (CE) n° 111/2005 fixant des règles pour la surveillance du commerce des précurseurs des drogues entre la Communauté et les pays tiers  
la substance n'est pas comprise

(suite page 9)

# Fiche de données de sécurité

## selon 1907/2006/CE, Article 31

Date d'impression : 26.04.2022

Révision: 26.04.2022

**Nom du produit: 1,2-dichloroéthane**

(suite de la page 8)

· **Prescriptions nationales:**

· **Indications sur les restrictions de travail:**

*Le personnel ne doit pas être exposé à cette substance dangereuse. Les autorités peuvent autoriser des exceptions dans des cas particuliers.*

· **Autres prescriptions, restrictions et règlements d'interdiction**

· **Substances extrêmement préoccupantes (SVHC) selon REACH, article 57**

107-06-2	1,2-dichloroéthane
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· **15.2 Évaluation de la sécurité chimique:** Une évaluation de la sécurité chimique n'a pas été réalisée.

### RUBRIQUE 16: Autres informations

*Ces indications sont fondées sur l'état actuel de nos connaissances, mais ne constituent pas une garantie quant aux propriétés du produit et ne donnent pas lieu à un rapport juridique contractuel.*

· **Acronymes et abréviations:**

*ADR: Accord relatif au transport international des marchandises dangereuses par route*

*IMDG: International Maritime Code for Dangerous Goods*

*IATA: International Air Transport Association*

*GHS: Globally Harmonised System of Classification and Labelling of Chemicals*

*EINECS: European Inventory of Existing Commercial Chemical Substances*

*CAS: Chemical Abstracts Service (division of the American Chemical Society)*

*LC50: Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*

*PBT: Persistent, Bioaccumulative and Toxic*

*SVHC: Substances of Very High Concern*

*vPvB: very Persistent and very Bioaccumulative*

*Flam. Liq. 2: Liquides inflammables – Catégorie 2*

*Acute Tox. 4: Toxicité aiguë – Catégorie 4*

*Skin Irrit. 2: Corrosion cutanée/irritation cutanée – Catégorie 2*

*Eye Irrit. 2: Lésions oculaires graves/irritation oculaire – Catégorie 2*

*Carc. 1B: Cancérogénicité – Catégorie 1B*

*STOT SE 3: Toxicité spécifique pour certains organes cibles (exposition unique) – Catégorie 3*

# Sicherheitsdatenblatt gemäß 1907/2006/EG, Artikel 31

Druckdatum: 26.04.2022

überarbeitet am: 26.04.2022

## ABSCHNITT 1: Bezeichnung des Stoffs beziehungsweise des Gemischs und des Unternehmens

- **1.1 Produktidentifikator**
- **Handelsname:** 1,2-Dichlorethan
- **Artikelnummer:** 13250, 13251
- **CAS-Nummer:**  
107-06-2
- **EG-Nummer:**  
203-458-1
- **Indexnummer:**  
602-012-00-7
- **1.2 Relevante identifizierte Verwendungen des Stoffs oder Gemischs und Verwendungen, von denen abgeraten wird**  
Keine weiteren relevanten Informationen verfügbar.
- **Verwendung des Stoffes / des Gemisches** Laborchemikalien
- **1.3 Einzelheiten zum Lieferanten, der das Sicherheitsdatenblatt bereitstellt**
- **Hersteller/Lieferant:**  
Electron Microscopy Sciences  
1560 Industry Road  
USA-Hatfield, PA 19440  
Tel: 215-412-8400 Fax: 215-412-8450  
email: info@emsdiasum.com  
www.emsdiasum.com
- Science Services GmbH  
Unterhachinger Str. 75  
81737 München Germany
- Tel: +49(0)89 18 93 668-0  
safety@scienceservices.de
- Deutschland: +49 (0)89 19240, 24h Giftnotruf München, www.toxinfo.org  
Österreich: +43 1406 43 43, Gesundheit Österreich GmbH, 24 h
- **Auskunftgebender Bereich:** Product safety department
- **1.4 Notrufnummer:**  
ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887

## ABSCHNITT 2: Mögliche Gefahren

- **2.1 Einstufung des Stoffs oder Gemischs**
- **Einstufung gemäß Verordnung (EG) Nr. 1272/2008**



GHS02 Flamme

Flam. Liq. 2 H225 Flüssigkeit und Dampf leicht entzündbar.



GHS08 Gesundheitsgefahr

Carc. 1B H350 Kann Krebs erzeugen.

(Fortsetzung auf Seite 2)

# Sicherheitsdatenblatt

## gemäß 1907/2006/EG, Artikel 31

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(Fortsetzung von Seite 1)



GHS07

*Acute Tox. 4 H302 Gesundheitsschädlich bei Verschlucken.*

*Skin Irrit. 2 H315 Verursacht Hautreizungen.*

*Eye Irrit. 2 H319 Verursacht schwere Augenreizung.*

*STOT SE 3 H335 Kann die Atemwege reizen.*

### · 2.2 Kennzeichnungselemente

#### · Kennzeichnung gemäß Verordnung (EG) Nr. 1272/2008

*Der Stoff ist gemäß CLP-Verordnung eingestuft und gekennzeichnet.*

#### · Gefahrenpiktogramme



GHS02

GHS07

GHS08

#### · Signalwort Gefahr

#### · Gefahrenhinweise

*H225 Flüssigkeit und Dampf leicht entzündbar.*

*H302 Gesundheitsschädlich bei Verschlucken.*

*H315 Verursacht Hautreizungen.*

*H319 Verursacht schwere Augenreizung.*

*H350 Kann Krebs erzeugen.*

*H335 Kann die Atemwege reizen.*

#### · Sicherheitshinweise

*P210 Von Hitze, heißen Oberflächen, Funken, offenen Flammen und anderen Zündquellen fernhalten. Nicht rauchen.*

*P241 Explosionsgeschützte [elektrische/Lüftungs-/Beleuchtungs-] Geräte verwenden.*

*P303+P361+P353 BEI BERÜHRUNG MIT DER HAUT (oder dem Haar): Alle kontaminierten Kleidungsstücke sofort ausziehen. Haut mit Wasser abwaschen [oder duschen].*

*P305+P351+P338 BEI KONTAKT MIT DEN AUGEN: Einige Minuten lang behutsam mit Wasser spülen. Eventuell vorhandene Kontaktlinsen nach Möglichkeit entfernen. Weiter spülen.*

*P405 Unter Verschluss aufbewahren.*

*P501 Entsorgung des Inhalts / des Behälters gemäß den örtlichen / regionalen / nationalen / internationalen Vorschriften.*

#### · Zusätzliche Angaben:

*Nur für gewerbliche Anwender.*

### · 2.3 Sonstige Gefahren

#### · Ergebnisse der PBT- und vPvB-Beurteilung

· **PBT:** Nicht anwendbar.

· **vPvB:** Nicht anwendbar.

## ABSCHNITT 3: Zusammensetzung/Angaben zu Bestandteilen

### · 3.1 Chemische Charakterisierung: Stoffe

#### · CAS-Nr. Bezeichnung

*107-06-2 1,2-Dichlorethan*

#### · Identifikationsnummer(n)

· **EG-Nummer:** 203-458-1

(Fortsetzung auf Seite 3)

# Sicherheitsdatenblatt

## gemäß 1907/2006/EG, Artikel 31

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überarbeitet am: 26.04.2022

**Handelsname: 1,2-Dichlorethan**

(Fortsetzung von Seite 2)

· **Indexnummer:** 602-012-00-7

· **SVHC**

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### ABSCHNITT 4: Erste-Hilfe-Maßnahmen

· **4.1 Beschreibung der Erste-Hilfe-Maßnahmen**

· **Allgemeine Hinweise:**

*Vergiftungssymptome können erst nach vielen Stunden auftreten, deshalb ärztliche Überwachung mindestens 48 Stunden nach einem Unfall.*

· **Nach Einatmen:** Bei Bewusstlosigkeit Lagerung und Transport in stabiler Seitenlage.

· **Nach Hautkontakt:** Sofort mit Wasser und Seife abwaschen und gut nachspülen.

· **Nach Augenkontakt:**

*Augen mehrere Minuten bei geöffnetem Lidspalt unter fließendem Wasser spülen. Bei anhaltenden Beschwerden Arzt konsultieren.*

· **Nach Verschlucken:** Sofort Arzt aufsuchen.

· **4.2 Wichtigste akute und verzögert auftretende Symptome und Wirkungen**

*Keine weiteren relevanten Informationen verfügbar.*

· **4.3 Hinweise auf ärztliche Soforthilfe oder Spezialbehandlung**

*Keine weiteren relevanten Informationen verfügbar.*

### ABSCHNITT 5: Maßnahmen zur Brandbekämpfung

· **5.1 Löschmittel**

· **Geeignete Löschmittel:**

*CO<sub>2</sub>, Löschpulver oder Wassersprühstrahl. Größeren Brand mit Wassersprühstrahl oder alkoholbeständigem Schaum bekämpfen.*

· **5.2 Besondere vom Stoff oder Gemisch ausgehende Gefahren**

*Keine weiteren relevanten Informationen verfügbar.*

· **5.3 Hinweise für die Brandbekämpfung**

· **Besondere Schutzausrüstung:** Keine besonderen Maßnahmen erforderlich.

### ABSCHNITT 6: Maßnahmen bei unbeabsichtigter Freisetzung

· **6.1 Personenbezogene Vorsichtsmaßnahmen, Schutzausrüstungen und in Notfällen anzuwendende Verfahren**

*Schutzausrüstung tragen. Ungeschützte Personen fernhalten.*

· **6.2 Umweltschutzmaßnahmen:**

*Mit viel Wasser verdünnen.*

*Nicht in die Kanalisation/Oberflächenwasser/Grundwasser gelangen lassen.*

· **6.3 Methoden und Material für Rückhaltung und Reinigung:**

*Mit flüssigkeitsbindendem Material (Sand, Kieselgur, Säurebinder, Universalbinder, Sägemehl) aufnehmen.*

*Kontaminiertes Material als Abfall nach Abschnitt 13 entsorgen.*

*Für ausreichende Lüftung sorgen.*

· **6.4 Verweis auf andere Abschnitte**

*Informationen zur sicheren Handhabung siehe Abschnitt 7.*

*Informationen zur persönlichen Schutzausrüstung siehe Abschnitt 8.*

*Informationen zur Entsorgung siehe Abschnitt 13.*

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### ABSCHNITT 7: Handhabung und Lagerung

- **7.1 Schutzmaßnahmen zur sicheren Handhabung** Behälter mit Vorsicht öffnen und handhaben.
- **Hinweise zum Brand- und Explosionsschutz:**  
Zündquellen fernhalten - nicht rauchen.  
Maßnahmen gegen elektrostatische Aufladung treffen.  
Atemschutzgeräte bereithalten.
- **7.2 Bedingungen zur sicheren Lagerung unter Berücksichtigung von Unverträglichkeiten**
- **Lagerung:**
- **Anforderung an Lagerräume und Behälter:** An einem kühlen Ort lagern.
- **Zusammenlagerungshinweise:** Nicht erforderlich.
- **Weitere Angaben zu den Lagerbedingungen:**  
Behälter dicht geschlossen halten.  
In gut verschlossenen Gebinden kühl und trocken lagern.
- **Lagerklasse:**
- **Klassifizierung nach Betriebsicherheitsverordnung (BetrSichV):** Entzündbare Flüssigkeiten
- **7.3 Spezifische Endanwendungen** Keine weiteren relevanten Informationen verfügbar.

### ABSCHNITT 8: Begrenzung und Überwachung der Exposition/Persönliche Schutzausrüstungen

- **8.1 Zu überwachende Parameter**
- **Zusätzliche Hinweise zur Gestaltung technischer Anlagen:** Keine weiteren Angaben, siehe Abschnitt 7.

- **Bestandteile mit arbeitsplatzbezogenen, zu überwachenden Grenzwerten:**

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TRGS 910	Toleranzkonzentration: 4 mg/m <sup>3</sup> , 1 ppm, Überschreitungsfaktor: 8 Akzeptanzkonzentration: 0,8 mg/m <sup>3</sup> , 0,2 ppm
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- **Zusätzliche Hinweise:** Als Grundlage dienen die bei der Erstellung gültigen Listen.

- **8.2 Begrenzung und Überwachung der Exposition**

- **Persönliche Schutzausrüstung:**

- **Allgemeine Schutz- und Hygienemaßnahmen:**

Von Nahrungsmitteln, Getränken und Futtermitteln fernhalten.

Beschmutzte, getränkte Kleidung sofort ausziehen.

Vor den Pausen und bei Arbeitsende Hände waschen.

Getrennte Aufbewahrung der Schutzkleidung.

Berührung mit den Augen und der Haut vermeiden.

- **Atemschutz:**

Bei kurzzeitiger oder geringer Belastung Atemfiltergerät; bei intensiver bzw. längerer Exposition umluftunabhängiges Atemschutzgerät verwenden.

- **Handschutz:**



Schutzhandschuhe

Das Handschuhmaterial muss undurchlässig und beständig gegen das Produkt / den Stoff / die Zubereitung sein. Aufgrund fehlender Tests kann keine Empfehlung zum Handschuhmaterial für das Produkt / die Zubereitung / das Chemikaliengemisch abgegeben werden.

Auswahl des Handschuhmaterials unter Beachtung der Durchbruchzeiten, Permeationsraten und der Degradation.

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- **Handschuhmaterial**  
Die Auswahl eines geeigneten Handschuhs ist nicht nur vom Material, sondern auch von weiteren Qualitätsmerkmalen abhängig und von Hersteller zu Hersteller unterschiedlich.
- **Durchdringungszeit des Handschuhmaterials**  
Die genaue Durchbruchzeit ist beim Schutzhandschuhhersteller zu erfahren und einzuhalten.
- **Augenschutz:**



Dichtschließende Schutzbrille

### ABSCHNITT 9: Physikalische und chemische Eigenschaften

#### · 9.1 Angaben zu den grundlegenden physikalischen und chemischen Eigenschaften

##### · Allgemeine Angaben

##### · Aussehen:

<b>Form:</b>	Ölig
<b>Farbe:</b>	Farblos
<b>Geruch:</b>	Angenehm
<b>Geruchsschwelle:</b>	Nicht bestimmt.

· **pH-Wert:** Nicht bestimmt.

##### · Zustandsänderung

<b>Schmelzpunkt/Gefrierpunkt:</b>	-35,5 °C
<b>Siedebeginn und Siedebereich:</b>	83,5 °C

· **Flammpunkt:** 13 °C

· **Entzündbarkeit (fest, gasförmig):** Nicht anwendbar.

· **Zündtemperatur:** 413-440 °C

· **Zersetzungstemperatur:** Nicht bestimmt.

· **Selbstentzündungstemperatur:** Nicht bestimmt.

· **Explosive Eigenschaften:** Das Produkt ist nicht explosionsgefährlich, jedoch ist die Bildung explosionsgefährlicher Dampf-/Luftgemische möglich.

##### · Explosionsgrenzen:

<b>Untere:</b>	6,2 Vol %
<b>Obere:</b>	15,9 Vol %

· **Dampfdruck bei 20 °C:** 87 hPa

<b>Dichte bei 20 °C:</b>	1,24 g/cm <sup>3</sup>
<b>Relative Dichte</b>	Nicht bestimmt.
<b>Dampfdichte</b>	Nicht bestimmt.
<b>Verdampfungsgeschwindigkeit</b>	Nicht bestimmt.

· **Löslichkeit in / Mischbarkeit mit Wasser bei 20 °C:** 8 g/l

· **Verteilungskoeffizient: n-Octanol/Wasser:** Nicht bestimmt.

##### · Viskosität:

**Dynamisch bei 20 °C:** 0,8 mPas

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<b>Kinematisch:</b>	Nicht bestimmt.
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<b>· 9.2 Sonstige Angaben</b>	Keine weiteren relevanten Informationen verfügbar.
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### ABSCHNITT 10: Stabilität und Reaktivität

- **10.1 Reaktivität** Keine weiteren relevanten Informationen verfügbar.
- **10.2 Chemische Stabilität**
- **Thermische Zersetzung / zu vermeidende Bedingungen:**  
Keine Zersetzung bei bestimmungsgemäßer Verwendung.
- **10.3 Möglichkeit gefährlicher Reaktionen** Keine gefährlichen Reaktionen bekannt.
- **10.4 Zu vermeidende Bedingungen** Keine weiteren relevanten Informationen verfügbar.
- **10.5 Unverträgliche Materialien:** Keine weiteren relevanten Informationen verfügbar.
- **10.6 Gefährliche Zersetzungsprodukte:** Keine gefährlichen Zersetzungsprodukte bekannt.

### ABSCHNITT 11: Toxikologische Angaben

- **11.1 Angaben zu toxikologischen Wirkungen**
  - **Akute Toxizität**  
Gesundheitsschädlich bei Verschlucken.
- |  |      |                   |
|--|------|-------------------|
| <b>· Einstufungsrelevante LD/LC50-Werte:</b> |      |                   |
| Oral   | LD50 | 670 mg/kg (rat)   |
| Dermal                                       | LD50 | 2.800 mg/kg (rat) |
- **Primäre Reizwirkung:**
  - **Ätz-/Reizwirkung auf die Haut**  
Verursacht Hautreizungen.
  - **Schwere Augenschädigung/-reizung**  
Verursacht schwere Augenreizung.
  - **Sensibilisierung der Atemwege/Haut** Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
  - **Zusätzliche toxikologische Hinweise:**
  - **CMR-Wirkungen (krebserzeugende, erbgutverändernde und fortpflanzungsgefährdende Wirkung)**
  - **Keimzell-Mutagenität** Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
  - **Karzinogenität**  
Kann Krebs erzeugen.
  - **Reproduktionstoxizität** Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
  - **Spezifische Zielorgan-Toxizität bei einmaliger Exposition**  
Kann die Atemwege reizen.
  - **Spezifische Zielorgan-Toxizität bei wiederholter Exposition**  
Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
  - **Aspirationsgefahr** Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.

### ABSCHNITT 12: Umweltbezogene Angaben

- **12.1 Toxizität**
- **Aquatische Toxizität:** Keine weiteren relevanten Informationen verfügbar.
- **12.2 Persistenz und Abbaubarkeit** Keine weiteren relevanten Informationen verfügbar.
- **12.3 Bioakkumulationspotenzial** Keine weiteren relevanten Informationen verfügbar.
- **12.4 Mobilität im Boden** Keine weiteren relevanten Informationen verfügbar.

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- **Weitere ökologische Hinweise:**
- **Allgemeine Hinweise:**  
Wassergefährdungsklasse 3 (Listeneinstufung): stark wassergefährdend  
Nicht in das Grundwasser, in Gewässer oder in die Kanalisation gelangen lassen, auch nicht in kleinen Mengen.  
Trinkwassergefährdung bereits beim Auslaufen geringster Mengen in den Untergrund.
- **12.5 Ergebnisse der PBT- und vPvB-Beurteilung**
- **PBT:** Nicht anwendbar.
- **vPvB:** Nicht anwendbar.
- **12.6 Andere schädliche Wirkungen** Keine weiteren relevanten Informationen verfügbar.

### ABSCHNITT 13: Hinweise zur Entsorgung

- **13.1 Verfahren der Abfallbehandlung**
- **Empfehlung:** Darf nicht zusammen mit Hausmüll entsorgt werden. Nicht in die Kanalisation gelangen lassen.
- **Ungereinigte Verpackungen:**
- **Empfehlung:** Entsorgung gemäß den behördlichen Vorschriften.
- **Empfohlenes Reinigungsmittel:** Wasser, gegebenenfalls mit Zusatz von Reinigungsmitteln.

### ABSCHNITT 14: Angaben zum Transport

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>· <b>14.1 UN-Nummer</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>  | <p style="text-align: right;">UNI184</p>  |
| <ul style="list-style-type: none"> <li>· <b>14.2 Ordnungsgemäße UN-Versandbezeichnung</b></li> <li>· <b>ADR</b></li> <li>· <b>IMDG</b></li> <li>· <b>IATA</b></li> </ul> | <p style="text-align: right;">1184 ETHYLENDICHLORID<br/>ETHYLENE DICHLORIDE, MARINE POLLUTANT<br/>ETHYLENE DICHLORIDE</p> |
| <ul style="list-style-type: none"> <li>· <b>14.3 Transportgefahrenklassen</b></li> <li>· <b>ADR</b></li> </ul>   | <p style="text-align: right;">3 Entzündbare flüssige Stoffe<br/>3+6.1</p>   |
| <ul style="list-style-type: none"> <li>· <b>IMDG</b></li> </ul>  | <p style="text-align: right;">3 Entzündbare flüssige Stoffe<br/>3/6.1</p>   |
| <ul style="list-style-type: none"> <li>· <b>IATA</b></li> </ul>  | <p style="text-align: right;">3 Entzündbare flüssige Stoffe</p>   |

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· <b>Label</b>	3 (6.1)
· <b>14.4 Verpackungsgruppe</b> · <b>ADR, IMDG, IATA</b>	II
· <b>14.5 Umweltgefahren:</b> · <b>Marine pollutant:</b>	Symbol (Fisch und Baum)
· <b>14.6 Besondere Vorsichtsmaßnahmen für den Verwender</b> · <b>Nummer zur Kennzeichnung der Gefahr (Kemler-Zahl):</b> · <b>EMS-Nummer:</b> · <b>Segregation groups</b> · <b>Stowage Category</b> · <b>Stowage Code</b>	Achtung: Entzündbare flüssige Stoffe 336 F-E, S- Liquid halogenated hydrocarbons B SW2 Clear of living quarters.
· <b>14.7 Massengutbeförderung gemäß Anhang II des MARPOL-Übereinkommens und gemäß IBC-Code</b>	Nicht anwendbar.
· <b>Transport/weitere Angaben:</b>	
· <b>ADR</b> · <b>Begrenzte Menge (LQ)</b> · <b>Freigestellte Mengen (EQ)</b>	1L Code: E2 Höchste Nettomenge je Innenverpackung: 30 ml Höchste Nettomenge je Außenverpackung: 500 ml
· <b>Beförderungskategorie</b> · <b>Tunnelbeschränkungscode</b>	2 D/E
· <b>IMDG</b> · <b>Limited quantities (LQ)</b> · <b>Excepted quantities (EQ)</b>	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <b>UN "Model Regulation":</b>	UN 1184 ETHYLENDICHLORID, 3 (6.1), II

### ABSCHNITT 15: Rechtsvorschriften

- **15.1 Vorschriften zu Sicherheit, Gesundheits- und Umweltschutz/spezifische Rechtsvorschriften für den Stoff oder das Gemisch**
- **Richtlinie 2012/18/EU**
- **Namentlich aufgeführte gefährliche Stoffe - ANHANG I** Der Stoff ist nicht enthalten.
- **Seveso-Kategorie P5c ENTZÜNDBARE FLÜSSIGKEITEN**
- **Mengenschwelle (in Tonnen) für die Anwendung in Betrieben der unteren Klasse 5.000 t**
- **Mengenschwelle (in Tonnen) für die Anwendung in Betrieben der oberen Klasse 50.000 t**
- **VERZEICHNIS DER ZULASSUNGSPFLICHTIGEN STOFFE (ANHANG XIV)** Sunset date: 2017-11-22
- **VERORDNUNG (EG) Nr. 1907/2006 ANHANG XVII** Beschränkungsbedingungen: 3, 28, 40
- **Verordnung (EU) Nr. 649/2012**  
Annex I Part 1  
Annex I Part 3
- **Richtlinie 2011/65/EU zur Beschränkung der Verwendung bestimmter gefährlicher Stoffe in Elektro- und Elektronikgeräten – Anhang II**  
Der Stoff ist nicht enthalten.

(Fortsetzung auf Seite 9)

# Sicherheitsdatenblatt

## gemäß 1907/2006/EG, Artikel 31

Druckdatum: 26.04.2022

überarbeitet am: 26.04.2022

**Handelsname: 1,2-Dichlorethan**

(Fortsetzung von Seite 8)

- **VERORDNUNG (EU) 2019/1148**
- **Anhang I - BESCHRÄNKTE AUSGANGSSTOFFE FÜR EXPLOSIVSTOFFE (Oberer Konzentrationsgrenzwert für eine Genehmigung nach Artikel 5 Absatz 3)**  
Der Stoff ist nicht enthalten.
- **Anhang II - MELDEPFLICHTIGE AUSGANGSSTOFFE FÜR EXPLOSIVSTOFFE**  
Der Stoff ist nicht enthalten.
- **Verordnung (EG) Nr. 273/2004 betreffend Drogenausgangsstoffe** Der Stoff ist nicht enthalten.
- **Verordnung (EG) Nr. 111/2005 zur Festlegung von Vorschriften für die Überwachung des Handels mit Drogenaustauschstoffen zwischen der Gemeinschaft und Drittländern**  
Der Stoff ist nicht enthalten.

- **Nationale Vorschriften:**

- **Hinweise zur Beschäftigungsbeschränkung:**

Arbeitnehmer dürfen diesem Gefahrstoff nicht ausgesetzt sein. Im Einzelfall kann die Behörde Ausnahmen zulassen.

- **Technische Anleitung Luft:**

Klasse	Anteil in %
III	100,0

- **Wassergefährdungsklasse: WGK 3 (Listeneinstufung):** stark wassergefährdend.

- **Sonstige Vorschriften, Beschränkungen und Verbotverordnungen**

Das Produkt unterliegt der Anlage 2 der Chemikalienverbotsverordnung (ChemVerbotsV) - Anforderungen in Bezug auf die Abgabe

- **Besonders besorgniserregende Stoffe (SVHC) gemäß REACH, Artikel 57**

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- **15.2 Stoffsicherheitsbeurteilung:** Eine Stoffsicherheitsbeurteilung wurde nicht durchgeführt.

### ABSCHNITT 16: Sonstige Angaben

Die Angaben stützen sich auf den heutigen Stand unserer Kenntnisse, sie stellen jedoch keine Zusicherung von Produkteigenschaften dar und begründen kein vertragliches Rechtsverhältnis.

- **Abkürzungen und Akronyme:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Entzündbare Flüssigkeiten – Kategorie 2

Acute Tox. 4: Akute Toxizität – Kategorie 4

Skin Irrit. 2: Hautreizende/-ätzende Wirkung – Kategorie 2

Eye Irrit. 2: Schwere Augenschädigung/Augenreizung – Kategorie 2

Carc. 1B: Karzinogenität – Kategorie 1B

STOT SE 3: Spezifische Zielorgan-Toxizität (einmalige Exposition) – Kategorie 3

**Scheda di dati di sicurezza**  
ai sensi del regolamento 1907/2006/CE, Articolo 31

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### SEZIONE 1: Identificazione della sostanza o della miscela e della società/impresa

· **1.1 Identificatore del prodotto**

· **Denominazione commerciale:** 1,2-dicloroetano

· **Articolo numero:** 13250, 13251

· **Numero CAS:**

107-06-2

· **Numeri CE:**

203-458-1

· **Numero indice:**

602-012-00-7

· **1.2 Usi identificati pertinenti della sostanza o della miscela e usi sconsigliati**

Non sono disponibili altre informazioni.

· **Utilizzazione della Sostanza / del Preparato** Prodotti chimici per laboratorio

· **1.3 Informazioni sul fornitore della scheda di dati di sicurezza**

· **Produttore/fornitore:**

Electron Microscopy Sciences

1560 Industry Road

USA-Hatfield, PA 19440

Tel: 215-412-8400 Fax: 215-412-8450

email: info@emsdiasum.com

www.emsdiasum.com

Societa Italiana Chimici

Via Rio Nell Ellba 140

00138 Rome, Italy

Tel: 39 06 8800211

Fax: 39 30 06 8815313

Web: www.sichim.com

· **Informazioni fornite da:** Product safety department

· **1.4 Numero telefonico di emergenza:**

ChemTrec 1-800-424-9300 Contract CCN7661

1-703-527-3887

### SEZIONE 2: Identificazione dei pericoli

· **2.1 Classificazione della sostanza o della miscela**

· **Classificazione secondo il regolamento (CE) n. 1272/2008**



GHS02 fiamma

Flam. Liq. 2 H225 Liquido e vapori facilmente infiammabili.



GHS08 pericolo per la salute

Carc. 1B H350 Può provocare il cancro.



GHS07

Acute Tox. 4 H302 Nocivo se ingerito.

Skin Irrit. 2 H315 Provoca irritazione cutanea.

(continua a pagina 2)

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Eye Irrit. 2 H319 Provoca grave irritazione oculare.

STOT SE 3 H335 Può irritare le vie respiratorie.

**· 2.2 Elementi dell'etichetta****· Etichettatura secondo il regolamento (CE) n. 1272/2008**

La sostanza è classificata ed etichettata conformemente al regolamento CLP.

**· Pittogrammi di pericolo**

GHS02 GHS07 GHS08

**· Avvertenza Pericolo****· Indicazioni di pericolo**

H225 Liquido e vapori facilmente infiammabili.

H302 Nocivo se ingerito.

H315 Provoca irritazione cutanea.

H319 Provoca grave irritazione oculare.

H350 Può provocare il cancro.

H335 Può irritare le vie respiratorie.

**· Consigli di prudenza**

P210 Tenere lontano da fonti di calore, superfici riscaldate, scintille, fiamme e altre fonti di innesco. Vietato fumare.

P241 Utilizzare impianti [elettrici/di ventilazione/d'illuminazione] a prova di esplosione.

P303+P361+P353 IN CASO DI CONTATTO CON LA PELLE (o con i capelli): togliersi di dosso immediatamente tutti gli indumenti contaminati. Sciacquare la pelle [o fare una doccia].

P305+P351+P338 IN CASO DI CONTATTO CON GLI OCCHI: sciacquare accuratamente per parecchi minuti. Togliere le eventuali lenti a contatto se è agevole farlo. Continuare a sciacquare.

P405 Conservare sotto chiave.

P501 Smaltire il prodotto/recipiente in conformità con le disposizioni locali / regionali / nazionali / internazionali.

**· 2.3 Altri pericoli****· Risultati della valutazione PBT e vPvB****· PBT:** Non applicabile.**· vPvB:** Non applicabile.**SEZIONE 3: Composizione/informazioni sugli ingredienti****· 3.1 Caratteristiche chimiche: Sostanze****· Numero CAS**

107-06-2 1,2-dicloroetano

**· Numero/i di identificazione****· Numeri CE:** 203-458-1**· Numero indice:** 602-012-00-7**· SVHC**

107-06-2 1,2-dicloroetano

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## Scheda di dati di sicurezza ai sensi del regolamento 1907/2006/CE, Articolo 31

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### SEZIONE 4: Misure di primo soccorso

#### · 4.1 Descrizione delle misure di primo soccorso

##### · **Indicazioni generali:**

*I sintomi di avvelenamento possono comparire dopo molte ore, per tale motivo è necessaria la sorveglianza di un medico nelle 48 ore successive all'incidente.*

· **Inalazione:** *Se il soggetto è svenuto provvedere a tenerlo durante il trasporto in posizione stabile su un fianco.*

· **Contatto con la pelle:** *Lavare immediatamente con acqua e sapone sciacquando accuratamente.*

##### · **Contatto con gli occhi:**

*Lavare con acqua corrente per diversi minuti tenendo le palpebre ben aperte. Se persiste il dolore consultare il medico.*

· **Ingestione:** *Chiamare subito il medico.*

· **4.2 Principali sintomi ed effetti, sia acuti che ritardati** *Non sono disponibili altre informazioni.*

· **4.3 Indicazione dell'eventuale necessità di consultare immediatamente un medico e di trattamenti speciali**

*Non sono disponibili altre informazioni.*

### SEZIONE 5: Misure antincendio

#### · 5.1 Mezzi di estinzione

##### · **Mezzi di estinzione idonei:**

*CO2, polvere o acqua nebulizzata. Estinguere gli incendi di grosse dimensioni con acqua nebulizzata o con schiuma resistente all'alcool.*

· **5.2 Pericoli speciali derivanti dalla sostanza o dalla miscela** *Non sono disponibili altre informazioni.*

##### · **5.3 Raccomandazioni per gli addetti all'estinzione degli incendi**

· **Mezzi protettivi specifici:** *Non sono richiesti provvedimenti particolari.*

### SEZIONE 6: Misure in caso di rilascio accidentale

#### · 6.1 Precauzioni personali, dispositivi di protezione e procedure in caso di emergenza

*Indossare equipaggiamento protettivo. Allontanare le persone non equipaggiate.*

##### · 6.2 Precauzioni ambientali:

*Diluire abbondantemente con acqua.*

*Impedire infiltrazioni nella fognatura/nelle acque superficiali/nelle acque freatiche.*

##### · 6.3 Metodi e materiali per il contenimento e per la bonifica:

*Raccogliere il liquido con materiale assorbente (sabbia, tripoli, legante di acidi, legante universale, segatura).*

*Smaltimento del materiale contaminato conformemente al punto 13.*

*Provvedere ad una sufficiente areazione.*

##### · 6.4 Riferimento ad altre sezioni

*Per informazioni relative ad una manipolazione sicura, vedere capitolo 7.*

*Per informazioni relative all'equipaggiamento protettivo ad uso personale vedere Capitolo 8.*

*Per informazioni relative allo smaltimento vedere Capitolo 13.*

### SEZIONE 7: Manipolazione e immagazzinamento

· **7.1 Precauzioni per la manipolazione sicura** *Aprire e manipolare i recipienti con cautela.*

##### · **Indicazioni in caso di incendio ed esplosione:**

*Tenere lontano da fonti di calore, non fumare.*

*Adottare provvedimenti contro cariche elettrostatiche.*

*Tener pronto il respiratore.*

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- **7.2 Condizioni per lo stoccaggio sicuro, comprese eventuali incompatibilità**
- **Stoccaggio:**
- **Requisiti dei magazzini e dei recipienti:** Conservare in ambiente fresco.
- **Indicazioni sullo stoccaggio misto:** Non necessario.
- **Ulteriori indicazioni relative alle condizioni di immagazzinamento:**  
Mantenere i recipienti ermeticamente chiusi.  
Conservare in luogo fresco e asciutto in fusti ben chiusi.
- **7.3 Usi finali particolari** Non sono disponibili altre informazioni.

### SEZIONE 8: Controllo dell'esposizione/protezione individuale

- **8.1 Parametri di controllo**
- **Ulteriori indicazioni sulla struttura di impianti tecnici:** Nessun dato ulteriore, vedere punto 7.

· **Componenti i cui valori limite devono essere tenuti sotto controllo negli ambienti di lavoro:**

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TWA	Valore a lungo termine: 40,5 mg/m <sup>3</sup> , 10 ppm
A4	

- **Ulteriori indicazioni:** Le liste valide alla data di compilazione sono state usate come base.

#### 8.2 Controlli dell'esposizione

##### Mezzi protettivi individuali:

##### Norme generali protettive e di igiene del lavoro:

- Tenere lontano da cibo, bevande e foraggi.
- Togliere immediatamente gli abiti contaminati.
- Lavarsi le mani prima dell'intervallo o a lavoro terminato.
- Custodire separatamente l'equipaggiamento protettivo.
- Evitare il contatto con gli occhi e la pelle.

##### Maschera protettiva:

Nelle esposizioni brevi e minime utilizzare la maschera; nelle esposizioni più intense e durature indossare l'autorespiratore.

##### Guanti protettivi:



Guanti protettivi

Il materiale dei guanti deve essere impermeabile e stabile contro il prodotto/ la sostanza/ la formulazione.

A causa della mancanza di tests non può essere consigliato alcun tipo di materiale per i guanti con cui manipolare il prodotto / la formulazione / la miscela di sostanze chimiche.

Scelta del materiale dei guanti in considerazione dei tempi di passaggio, dei tassi di permeazione e della degradazione.

##### Materiale dei guanti

La scelta dei guanti adatti non dipende soltanto dal materiale bensì anche da altre caratteristiche di qualità variabili da un produttore a un altro.

##### Tempo di permeazione del materiale dei guanti

Richiedere dal fornitore dei guanti il tempo di passaggio preciso il quale deve essere rispettato.

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· Occhiali protettivi:



Occhiali protettivi a tenuta

### SEZIONE 9: Proprietà fisiche e chimiche

#### · 9.1 Informazioni sulle proprietà fisiche e chimiche fondamentali

##### · Indicazioni generali

##### · Aspetto:

Forma: Oleoso

Colore: Incolore

· Odore: Gradevole

· Soglia olfattiva: Non definito.

· valori di pH: Non definito.

##### · Cambiamento di stato

Punto di fusione/punto di congelamento: -35,5 °C

Punto di ebollizione iniziale e intervallo di ebollizione: 83,5 °C

· Punto di infiammabilità: 13 °C

· Infiammabilità (solidi, gas): Non applicabile.

· Temperatura di accensione: 413-440 °C

· Temperatura di decomposizione: Non definito.

· Temperatura di autoaccensione: Non definito.

· Proprietà esplosive: Prodotto non è esplosivo, è tuttavia possibile la formazione di miscele di vapori/aria esplosive.

##### · Limiti di infiammabilità:

Inferiore: 6,2 Vol %

Superiore: 15,9 Vol %

· Tensione di vapore a 20 °C: 87 hPa

· Densità a 20 °C: 1,24 g/cm<sup>3</sup>

· Densità relativa: Non definito.

· Densità di vapore: Non definito.

· Velocità di evaporazione: Non definito.

· Solubilità in/Miscibilità con acqua a 20 °C:

8 g/l

· Coefficiente di ripartizione: n-ottanolo/acqua: Non definito.

##### · Viscosità:

Dinamica a 20 °C: 0,8 mPas

Cinematica: Non definito.

##### · 9.2 Altre informazioni

Non sono disponibili altre informazioni.

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**SEZIONE 10: Stabilità e reattività**

- **10.1 Reattività** Non sono disponibili altre informazioni.
- **10.2 Stabilità chimica**
- **Decomposizione termica/ condizioni da evitare:** Il prodotto non si decompone se utilizzato secondo le norme.
- **10.3 Possibilità di reazioni pericolose** Non sono note reazioni pericolose.
- **10.4 Condizioni da evitare** Non sono disponibili altre informazioni.
- **10.5 Materiali incompatibili:** Non sono disponibili altre informazioni.
- **10.6 Prodotti di decomposizione pericolosi:** Non sono noti prodotti di decomposizione pericolosi.

**SEZIONE 11: Informazioni tossicologiche**

- **11.1 Informazioni sugli effetti tossicologici**
- **Tossicità acuta**  
Nocivo se ingerito.

· **Valori LD/LC50 rilevanti per la classificazione:**

Orale	LD50	670 mg/kg (rat)
Cutaneo	LD50	2.800 mg/kg (rat)

- **Irritabilità primaria:**
- **Corrosione/irritazione cutanea**  
Provoca irritazione cutanea.
- **Lesioni oculari gravi/irritazioni oculari gravi**  
Provoca grave irritazione oculare.
- **Sensibilizzazione respiratoria o cutanea**  
Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.
- **Ulteriori dati tossicologici:**
- **Effetti CMR (cancerogenicità, mutagenicità e tossicità per la riproduzione)**
- **Mutagenicità delle cellule germinali**  
Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.
- **Cancerogenicità**  
Può provocare il cancro.
- **Tossicità per la riproduzione** Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.
- **Tossicità specifica per organi bersaglio (STOT) - esposizione singola**  
Può irritare le vie respiratorie.
- **Tossicità specifica per organi bersaglio (STOT) - esposizione ripetuta**  
Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.
- **Pericolo in caso di aspirazione** Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.

**SEZIONE 12: Informazioni ecologiche**

- **12.1 Tossicità**
- **Tossicità acquatica:** Non sono disponibili altre informazioni.
- **12.2 Persistenza e degradabilità** Non sono disponibili altre informazioni.
- **12.3 Potenziale di bioaccumulo** Non sono disponibili altre informazioni.
- **12.4 Mobilità nel suolo** Non sono disponibili altre informazioni.
- **Ulteriori indicazioni in materia ambientale:**
- **Ulteriori indicazioni:**  
Pericolosità per le acque classe 3 (D) (Classif. secondo le liste): molto pericoloso  
Non immettere nelle acque freatiche, nei corsi d'acqua o nelle fognature, anche in piccole dosi.  
Pericolo per le acque potabili anche in caso di perdite nel sottosuolo di quantità minime di prodotto.

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- 12.5 Risultati della valutazione PBT e vPvB
- **PBT:** Non applicabile.
- **vPvB:** Non applicabile.
- 12.6 Altri effetti avversi Non sono disponibili altre informazioni.

### SEZIONE 13: Considerazioni sullo smaltimento

- 13.1 Metodi di trattamento dei rifiuti
- **Consigli:** Non smaltire il prodotto insieme ai rifiuti domestici Non immettere nelle fognature.
- **Imballaggi non puliti:**
- **Consigli:** Smaltimento in conformità con le disposizioni amministrative.
- **Detergente consigliato:** Acqua eventualmente con l'aggiunta di detersivi.

### SEZIONE 14: Informazioni sul trasporto

- |   |   |
|---|---|
| · 14.1 Numero ONU<br>· ADR, IMDG, IATA  | UN1184  |
| · 14.2 Nome di spedizione dell'ONU<br>· ADR<br>· IMDG<br>· IATA                     | 1184 DICLORURO DI ETILENE<br>ETHYLENE DICHLORIDE, MARINE POLLUTANT<br>ETHYLENE DICHLORIDE |
| · 14.3 Classi di pericolo connesso al trasporto<br>· ADR                            |   |
|  |   |
| · Classe<br>· Etichetta   | 3 Liquidi infiammabili<br>3+6.1   |
| · IMDG  |   |
|  |   |
| · Class<br>· Label  | 3 Liquidi infiammabili<br>3/6.1   |
| · IATA  |   |
|  |   |
| · Class<br>· Label  | 3 Liquidi infiammabili<br>3 (6.1)   |
| · 14.4 Gruppo di imballaggio<br>· ADR, IMDG, IATA                                   | II  |

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· <b>14.5 Pericoli per l'ambiente:</b>	
· <b>Marine pollutant:</b>	Simbolo (pesce e albero)
· <b>14.6 Precauzioni speciali per gli utilizzatori</b>	Attenzione: Liquidi infiammabili
· <b>N° identificazione pericolo (Numero Kemler):</b>	336
· <b>Numero EMS:</b>	F-E, S-
· <b>Segregation groups</b>	Liquid halogenated hydrocarbons
· <b>Stowage Category</b>	B
· <b>Stowage Code</b>	SW2 Clear of living quarters.
· <b>14.7 Trasporto di rifiuti secondo l'allegato II di MARPOL ed il codice IBC</b>	Non applicabile.
· <b>Trasporto/ulteriori indicazioni:</b>	
· <b>ADR</b>	
· <b>Quantità limitate (LQ)</b>	1L
· <b>Quantità esenti (EQ)</b>	Codice: E2
	Quantità massima netta per imballaggio interno: 30 ml
	Quantità massima netta per imballaggio esterno: 500 ml
· <b>Categoria di trasporto</b>	2
· <b>Codice di restrizione in galleria</b>	D/E
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	1L
· <b>Excepted quantities (EQ)</b>	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
· <b>UN "Model Regulation":</b>	UN 1184 DICLORURO DI ETILENE, 3 (6.1), II

### SEZIONE 15: Informazioni sulla regolamentazione

- **15.1 Disposizioni legislative e regolamentari su salute, sicurezza e ambiente specifiche per la sostanza o la miscela**
- **Direttiva 2012/18/UE**
- **Sostanze pericolose specificate - ALLEGATO I** La sostanza non è contenuta
- **Categoria Seveso P5c LIQUIDI INFIAMMABILI**
- **Quantità limite (tonnellate) ai fini dell'applicazione dei requisiti di soglia inferiore 5.000 t**
- **Quantità limite (tonnellate) ai fini dell'applicazione dei requisiti di soglia superiore 50.000 t**
- **ELENCO DELLE SOSTANZE SOGGETTE AD AUTORIZZAZIONE (ALLEGATO XIV)**  
Sunset date: 2017-11-22
- **REGOLAMENTO (CE) n. 1907/2006 ALLEGATO XVII** Restrizioni: 3, 28, 40
- **Regolamento (UE) N. 649/2012**  
Annex I Part 1  
Annex I Part 3
- **Direttiva 2011/65/UE sulla restrizione dell'uso di determinate sostanze pericolose nelle apparecchiature elettriche ed elettroniche - Allegato II**  
La sostanza non è contenuta
- **REGOLAMENTO (UE) 2019/1148**
- **Allegato I - PRECURSORI DI ESPLOSIVI SOGGETTI A RESTRIZIONI (Valore limite superiore ai fini della concessione di licenze a norma dell'articolo 5, paragrafo 3)**  
La sostanza non è contenuta
- **Allegato II - PRECURSORI DI ESPLOSIVI SOGGETTI A SEGNALAZIONE** La sostanza non è contenuta

(continua a pagina 9)

**Scheda di dati di sicurezza**  
**ai sensi del regolamento 1907/2006/CE, Articolo 31**

Stampato il: 26.04.2022

Revisione: 26.04.2022

**Denominazione commerciale: 1,2-dicloroetano**

(Segue da pagina 8)

- **Regolamento (CE) n. 273/2004 relativo ai precursori di droghe** La sostanza non è contenuta
- **Regolamento (CE) N. 111/2005 recante norme per il controllo del commercio dei precursori di droghe tra la Comunità e i paesi terzi**  
La sostanza non è contenuta
- **Disposizioni nazionali:**
- **Indicazioni relative alla limitazione delle attività lavorative:**  
Il personale non deve essere esposto a questa sostanza pericolosa L'autorità può ammettere nei singoli casi delle eccezioni.
- **Ulteriori disposizioni, limitazioni e decreti proibitivi**

· **Sostanze estremamente preoccupanti (SVHC) ai sensi della regolamento REACH, articolo 57**

107-06-2	1,2-dicloroetano
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- **15.2 Valutazione della sicurezza chimica:** Una valutazione della sicurezza chimica non è stata effettuata.

### **SEZIONE 16: Altre informazioni**

*I dati sono riportati sulla base delle nostre conoscenze attuali, non rappresentano tuttavia alcuna garanzia delle caratteristiche del prodotto e non motivano alcun rapporto giuridico contrattuale.*

· **Abbreviazioni e acronimi:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Liquidi infiammabili – Categoria 2

Acute Tox. 4: Tossicità acuta – Categoria 4

Skin Irrit. 2: Corrosione/irritazione della pelle – Categoria 2

Eye Irrit. 2: Gravi lesioni oculari/irritazione oculare – Categoria 2

Carc. 1B: Cancerogenicità – Categoria 1B

STOT SE 3: Tossicità specifica per organi bersaglio (esposizione singola) – Categoria 3

물질안전보건자료  
GHS에 따라

인쇄일자: 2022.04.26

개정: 2022.04.26

**1 화학제품과 회사에 관한 정보**

- 제품 식별자
- 제품명: **1,2-이염화에탄**
- 상품번호: 13250, 13251
- CAS-번호  
107-06-2
- EC 의번호:  
203-458-1
- 색인 번호:  
602-012-00-7
- 해당 순물질이나 혼합물의 관련 하위용도 및 사용금지용도
- 제품의 권고 용도와 사용상의 제한: ETHYLENE DICHLORIDE
- 제품의 권고 용도와 사용상의 제한: 실험실 화학품
- 안전데이터표(Safety Data Sheet)내 공급업체 관련 상세 정보
- 제조자/수입자/유통업자 정보:  
Electron Microscopy Sciences  
1560 Industry Road  
USA-Hatfield, PA 19440  
Tel: 215-412-8400 Fax: 215-412-8450  
email: info@emsdiasum.com  
www.emsdiasum.com
- Samchang Commercial Co., Ltd.  
Yeo Eui Do  
PO Box 1110  
Seoul, Korea  
Tel: 82 2 703 3040  
Fax: 82 2 717 3298
- 
- Daedok Science, Co. Ltd.  
34141 E10 Korea Advanced Institute of Science  
Guseong-Dong, Yuseong-gu, Daejeon,  
Korea  
Phone: 82 42 710 2091  
Fax: 82 42 367 0005  
Website: www.labsmro.com
- 추가적인 정보 획득 가능: Product safety department
- 비상연락 전화번호:  
ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887

**2 유해성·위험성**

- 순물질 또는 혼합물의 분류



화염

인화성 액체 – 구분2

H225 고인화성 액체 및 증기



건강에 위험

발암성 – 구분1B

H350 암을 일으킬 수 있음

(2 쪽에 계속)

# 물질안전보건자료 GHS에 따라

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**제품명: 1,2-이염화에탄**

(1 쪽부터계속)



급성 독성 - 경구 - 구분4	H302 삼키면 유해함
피부 부식성/피부 자극성 - 구분2	H315 피부에 자극을 일으킴
심한 눈 손상성/눈 자극성 - 구분 2	H319 눈에 심한 자극을 일으킴
특정표적장기 독성 - 1회 노출- 구분3	H335 호흡기 자극을 일으킬 수 있음

**· 라벨표기 요소**

- **GHS 라벨 요소** 본 화학물질은 화학물질의 분류 및 표기에 관한 국제조화시스템(GHS)에 따라 분류 및 표기되었습니다.
- **GHS 그림문자**



GHS02    GHS07    GHS08

**· 신호어 위험**

**· 유해·위험문구**

- 고인화성 액체 및 증기
- 삼키면 유해함
- 피부에 자극을 일으킴
- 눈에 심한 자극을 일으킴
- 암을 일으킬 수 있음
- 호흡기 자극을 일으킬 수 있음

**· 예방조치문구**

- 열·스파크·화염·고열로부터 멀리하시오 - 금연
- 폭발 방지용 전기·환기·조명·장비를 사용하시오.
- 피부(또는 머리카락)에 묻으면 오염된 모든 의복은 벗거나 제거하시오. 피부를 물로 씻으시오/샤워하시오 .
- 눈에 묻으면 몇 분간 물로 조심해서 씻으시오. 가능하면 콘택트렌즈를 제거하시오. 계속 씻으시오.
- 밀봉하여 저장하시오.
- (지방/지역/국가/국제 규정에 따라) 에 내용물/용기를 폐기하시오.

**· 기타 유해성**

- **PBT(잔류성, 생물농축성, 독성 물질) 및 vPvB(고 잔류성, 고 생물농축성 물질) 평가 결과**
- **PBT(잔류성, 생물농축성, 독성 물질):** 해당사항 없음.
- **vPvB(고 잔류성, 고 생물농축성 물질):** 해당사항 없음.

### 3 구성성분의 명칭 및 함유량

- **화 학 적 특 성:** 화학물질
- **CAS-번호표시**  
107-06-2 1,2-이염화에탄
- **식별 번호**
- **EC 의번호:** 203-458-1
- **색인 번호:** 602-012-00-7

KR

(3 쪽에계속)

# 물질안전보건자료 GHS에 따라

인쇄일자: 2022.04.26

개정: 2022.04.26

제품명: 1,2-이염화에탄

(2 쪽부터계속)

## 4 응급조치 요령

- 응급조치요령 내용
- 일반적 정보:
  - 중독 증상은 몇 시간이 지난 뒤에 발생할 수 있다. 따라서 사고가 발생한 후에 적어도 48 시간동안은 의료진의 관찰을 받아야 한다.
- 흡입했을 때: 환자가 의식을 잃었을 경우에는 안전한 자세에서 환자를 운반한다.
- 피부에 접촉했을 때: 즉시 물과 비누로 씻고 잘 행군다.
- 눈에 들어갔을 때: 흐르는 물에 눈을 몇 분 동안 씻어내고 나서, 증상이 지속될 경우에는 의사와 상담한다.
- 먹었을 때: 즉시 의사의 도움을 구한다.
- 기타 의사의 주의사항:
  - 가장 중요한 급·만성 증상 및 영향 추가적인 정보가 존재하지 않습니다.
  - 즉각적인 의료처치 및 특별치료가 필요함을 시사하는 징후 추가적인 정보가 존재하지 않습니다.

## 5 폭발·화재시 대처방법

- 소화제
- 적절한 소화제:
  - 이산화탄소, 진화용 석회가루 또는 물방사를 사용하고, 더 큰 화재는 물을 분사하거나 알코올이 함유된 거품으로 끈다.
- 분화물질이나 혼합물에서 발생하는 특별 유해성 추가적인 정보가 존재하지 않습니다.
- 소방관에 대한 권고사항
- 화재 진압 시 착용할 보호구 및 예방조치: 특별한 조치가 필요없음.

## 6 누출 사고 시 대처방법

- 개인적 예방조치, 보호장비 및 응급처치 절차 안전장비 착용하고, 무방비의 사람은 격리시킨다.
- 환경 관련 예방조치:
  - 많은 물로 희석시킨다.
  - 하수도망/해수면위의물/지하수로도달하지않게한다.
- 밀폐 및 정화 방법과 소재:
  - 액체가 혼합된 물질 (모래, 규조토, 산성 결합물, 일반 결합물, 톱밥)에 흡입되도록 한다.
  - 항목 13에 따라 오염된 물질을 쓰레기로 처분한다.
  - 충분한 환기가 되도록 한다.
- 타 섹션 참조
  - 안전 관리에 대한 정보는 제7 장을 참고하십시오.
  - 개인 보호 장비에 대한 정보는 제8 장을 참고하십시오.
  - 쓰레기 처리에 대한 정보는 제13 장을 참고하십시오.

## 7 취급 및 저장방법

- 취급:
  - 안전 취급을 위한 예방조치 조심스럽게 용기를 개봉하거나 취급한다.
- 화재 및 폭발 사고 예방대책에 관한 정보:
  - 발화 요소는 멀리 둔다-금연.
  - 정전기 충전으로부터 보호한다.
  - 호흡보호장비를 항상 비치한다.
- 혼합위험성 등 안전 저장 조건
- 보관:
  - 안전한 저장 방법: 차가운 장소에 보관한다.

(4 쪽에계속)

# 물질안전보건자료 GHS에 따라

인쇄일자: 2022.04.26

개정: 2022.04.26

**제품명: 1,2-이염화에탄**

(3 쪽부터 계속)

- 하나의 공동 보관 시설에 대한 보관 관련 정보: 필 요 없 음
- 보 관 조 건 에 관 한 추 가 적 인 정 보:  
용기를 새지 않게 밀폐한 채 보관한다.  
밀폐된 용기 속에서 늘 하고 건 조 하 게 보 관 한 다.
- 구 체 적 최 종 사 용 자 추 가 적 인 정 보 가 존 재 하 지 않 습 니 다.

## 8 노출방지 및 개인보호구

- 첨 단 시 설 디 자 인 에 대 한 추 가 정 보: 더 이 상 의 자 료 는 없 음. 항 목 7 을 참 고 하 시 오.
- 통 제 변 수

· 화 학 물 질 의 노 출 기 준, 생 물 학 적 노 출 기 준 등:

### 107-06-2 1,2-이염화에탄

OELV (KR)	장기간의값: 10 ppm 발암성 1B
BOELV (EU)	장기간의값: 8.2 mg/m <sup>3</sup> , 2 ppm Skin
PEL (US)	장기간의값: 50 ppm 최고노출기준: 100; 200* ppm *5-min peak in any 3 hrs
REL (US)	단기간의값: 8 mg/m <sup>3</sup> , 2 ppm 장기간의값: 4 mg/m <sup>3</sup> , 1 ppm See Pocket Guide Apps. A and C
TLV (US)	장기간의값: 10 ppm A4

· 추 가 정 보: 제 조 할 당 시 에 유 효 한 목 록 을 기 초 로 사 용 했 다.

- 노 출 통 제
- 개 인 보 호 구

· 일 반 적 보 호 조 치 및 위 생 조 치:

- 식 료 품, 음 료 수 와 사 료 로 부 터 멀 리 떨 어 뜨 려 놓 는 다.
- 더 러 워 지 거 나 음 료 수 가 물 은 즉 시 탈 의 한 다.
- 휴 식 전 이 나 작 업 이 끝 날 때 마 다 손 을 씻 는 다.
- 방 호 복 은 따 로 보 관 한 다.
- 눈 과 피 부 와 의 접 촉 은 피 한 다.

· 호 흡 기 보 호:

단 시 간 또 는 경 미 한 오 염 의 경 우 에 는 호 흡 여 과 기 를 사 용 한 다. 심 각 한 또 는 장 기 간 노 출 시 에 는 호 흡 보 호 장 비 를 사 용 한 다.

· 손 보 호:



보 호 용 장 갑

장갑재질은 제품 / 원료 / 조제를 통과시키지 않아야 하고, 내구성이 있어야 한다.

테 슣 을 하 지 않 았 기 때 문 에 제 품 / 조 제 / 화 학 혼 합 물 에 적 합 한 장 갑 재 질 에 대 한 추 천 이 없 다.

투 과 시 간, 침 투 율 과 저 하 를 고 려 해 서 장 갑 재 료 를 선 택 한 다.

· 장 갑 의 재 료

적 합 한 장 갑 의 선 정 은 재 질 차 이 뿐 이 나 라 품 질 기 준 의 차 이 도 고 려 하 여 이 루 어 져 야 하 고 제 조 업 자 에 따 라 서 도 다 르 게 선 정 되 어 야 한 다.

· 장 갑 재 료 의 투 과 시 간 정 확 한 관 통 시 간 은 보 호 장 갑 제 조 자 에 의 하 여 인 지 되 고, 준 수 되 어 야 한 다.

(5 쪽에 계속)



물질안전보건자료  
GHS에 따라

인쇄일자: 2022.04.26

개정: 2022.04.26

제품명: 1,2-이염화에탄

(4 쪽부터계속)

· 눈 보호:



꼭조이는보안경

9 물리화학적 특성

· 기본 물리 및 화학적 특성에 대한 정보

· 일반정보

· 외형

· 물리적 상태: 기름의  
· 색: 색소가없는

· 냄새:

· 후각역치: 유쾌한  
알맞지않다.

· pH:

알맞지않다.

· 상태변화

· 녹는점/어는점: -35.5 °C

· 초기 끓는점과 끓는점 범위: 83.5 °C

· 인화점:

13 °C

· 인화성(고체, 기체):

해당사항 없음.

· 점화온도:

413-440 °C

· 분해 온도:

알맞지않다.

· 자기점화:

알맞지않다.

· 폭발위험:

이제품은폭발위험성이없지만  
폭발가능성이있는증기화합물/공기화합물의형성가능성이있다.

· 인화 또는 폭발 범위의 상한/하한

· 아래로: 6.2 Vol %

· 위로: 15.9 Vol %

· 증기압 의경우 20 °C:

87 hPa

· 밀도 의경우 20 °C:

1.24 g/cm<sup>3</sup>

· 비중:

알맞지않다.

· 증기밀도:

알맞지않다.

· 증발 속도:

알맞지않다.

· 용해도:

· 물 의경우 20 °C: 8 g/l

· n 옥탄올/물 분배계수:

알맞지않다.

· 점도:

· 역학적 의경우 20 °C: 0.8 mPas

· 동점성: 알맞지않다.

· 기타 정보

추가적인 정보가 존재하지 않습니다.

KR

(6 쪽에계속)

# 물질안전보건자료 GHS에 따라

인쇄일자: 2022.04.26

개정: 2022.04.26

**제품명: 1,2-이염화에탄**

(5 쪽부터계속)

## 10 안정성 및 반응성

- 반응성 추가적인 정보가 존재하지 않습니다.
- 화학적 안정성
- 화학적 안정성 및 유해 반응의 가능성 / 피해야 할 조건: 규정에따라사용할경우해체는없다
- 유해반응 가능성 위험한반응으로는알려지지않았다.
- 피해야 할 조건 추가적인 정보가 존재하지 않습니다.
- 혼합 금지 물질: 추가적인 정보가 존재하지 않습니다.
- 유해분해물질: 위험성있는분해물들은알려지지않았다.

## 11 독성에 관한 정보

- 독성학적 영향에 대한 정보
- 급성 독성:

· LD/LC50-수치에 따른 분류:

구강의	LD50	670 mg/kg (rat)
피부의	LD50	2,800 mg/kg (rat)

- 일차적 자극 효과:
- 피부 부식성 또는 자극성: 피부와점막을자극한다.
- 심한 눈 손상 또는 자극성: 자극
- 감각화: 민감한영향이없는것으로알려져있다.
- 다음 종류의 잠재적인 효과에 대한 정보
- CMR-효과 (암 유발, 돌연변이성 그리고 생식 독성)  
발암성 – 구분1B

## 12 환경에 미치는 영향

- 독성
- 수생독성: 추가적인 정보가 존재하지 않습니다.
- 지속성 및 분해성 추가적인 정보가 존재하지 않습니다.
- 환 경 시스템에서의 행 동:
- 생물농축 잠재성 추가적인 정보가 존재하지 않습니다.
- 토양내 이동성 추가적인 정보가 존재하지 않습니다.
- 추가적인 생태학 정보:
- 일반 특징:  
수질오염등급 3 (목록분류): 심하게수질오염이된  
지하수나, 하천으로또는하수도망에도달하지않게한다. 역시극소수의양이라도안된다.  
지하수로아주미세한양이유입되었을경우엔이미식수오염상태이다
- PBT(잔류성, 생물농축성, 독성 물질) 및 vPvB(고 잔류성, 고 생물농축성 물질) 평가 결과
- PBT(잔류성, 생물농축성, 독성 물질): 해당사항 없음.
- vPvB(고 잔류성, 고 생물농축성 물질): 해당사항 없음.
- 기타 부작용 추가적인 정보가 존재하지 않습니다.

## 13 폐기시 주의사항

- 폐기물 처리 방법
- 권고: 생활쓰레기와함께처리되어서는안된다. 하수도망으로유입되어서는안된다.

(7 쪽에계속)

물질안전보건자료  
GHS에 따라

인쇄일자: 2022.04.26

개정: 2022.04.26

제품명: 1,2-이염화에탄

(6 쪽부터계속)

- 비위생적 포장:
- 권고: 당국의지침에입각한쓰레기처리.
- 추천 세정제: 경우에따라서세제가첨가된물

14 운송에 필요한 정보

· 유엔 번호 · ADR, IMDG, IATA	UN1184
· UN 적정 선정명 · ADR · IMDG · IATA	1184 ETHYLENE DICHLORIDE ETHYLENE DICHLORIDE, MARINE POLLUTANT ETHYLENE DICHLORIDE
· 교통 위험 클래스 · ADR	
· 등급 · 위험물 라벨	3 발화성용액 3+6.1
· IMDG	
· Class · Label	3 발화성용액 3/6.1
· IATA	
· Class · Label	3 발화성용액 3 (6.1)
· 용기등급 · ADR, IMDG, IATA	II
· 환경적 유해물질: · 해양오염물질:	심별 (물고기와 나무)
· 이용자 특별 예방조치 · 위험 코드: · EMS-번호: · Segregation groups · Stowage Category · Stowage Code	경고: 발화성용액 336 F-E, S- Liquid halogenated hydrocarbons B SW2 Clear of living quarters.

(8 쪽에계속)

# 물질안전보건자료 GHS에 따라

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· <b>MARPOL73/78(선박으로부터의 해양오염방지협약)</b> 부속서2 및 IBC Code(국제선적화물코드)에 따른 벌크(bulk) 운송	해당사항 없음.
· 운 송/추가 정보:	
· <b>ADR</b> · 한정 수량 (LQ) · Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· 운송 구분 · 터널 제한 코드	2 D/E
· <b>IMDG</b> · Limited quantities (LQ) · Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "모범 규제":	UN 1184 ETHYLENE DICHLORIDE, 3 (6.1), II

## 15 법적 규제현황

- 산업안전보건법에 의한 규제:
- 제조 등 금지물질: 성분이포함되어있지않다
- 허가대상물질: 성분이포함되어있지않다
- 관리대상유해물질: 성분이포함되어있다
- 관리대상 유해물질의 종류 유기화합물: 23
- 작업환경측정 대상 유해인자 1A80
- 특수건강진단 대상 유해인자 1A75
- 해당 순물질 또는 혼합물에 대한 안전, 보건 및 환경 규제/법률
- **Korean Existing Chemical Inventory KE-10121**
- 화학물질관리법
- 사고대비물질 성분이포함되어있지않다
- 금지물질 성분이포함되어있지않다
- 제한물질 성분이포함되어있지않다
- 유독물질 성분이포함되어있다
- 허가물질 성분이포함되어있다
- 위험물안전관리법 (위험물 및 지정수량) 제 4: 200 리터
- 등록 또는 신고 면제대상 화학물질 성분이포함되어있지않다
- ‘21년까지 등록하여야 할 암, 돌연변이, 생식능력 이상을 일으키거나 일으킬 우려가 있는 기존화학물질 성분이포함되어있지않다
- 중점관리물질의 지정
- 표1 중점관리물질(제2조 관련) 성분이포함되어있지않다
- 표2 중점관리물질(제2조 관련) 성분이포함되어있지않다
- **GHS 라벨 요소** 본 화학물질은 화학물질의 분류 및 표기에 관한 국제조화시스템(GHS)에 따라 분류 및 표기되었습니다.
- **GHS 그림문자**



(9 쪽에계속)

# 물질안전보건자료 GHS에 따라

인쇄일자: 2022.04.26

개정: 2022.04.26

**제품명: 1,2-이염화에탄**

(8 쪽부터계속)

- **신호어 위험**
- **유해·위험문구**  
 고인화성 액체 및 증기  
 삼키면 유해함  
 피부에 자극을 일으킴  
 눈에 심한 자극을 일으킴  
 암을 일으킬 수 있음  
 호흡기 자극을 일으킬 수 있음
- **예방조치문구**  
 열·스파크·화염·고열로부터 멀리하십시오 - 금연  
 폭발 방지용 전기·환기·조명·장비를 사용하십시오.  
 피부(또는 머리카락)에 묻으면 오염된 모든 의복은 벗거나 제거하십시오. 피부를 물로 씻으시오/샤워하십시오 .  
 눈에 묻으면 몇 분간 물로 조심해서 씻으시오. 가능하면 콘택트렌즈를 제거하십시오. 계속 씻으시오.  
 밀봉하여 저장하십시오.  
 (지방/지역/국가/국제 규정에 따라) 에 내용물/용기를 폐기하십시오.
- **국내규정:**
- **사용제한에 대한 정보:** 노동자들은이러한위험물질을내버리지말아야한다. 개별적인경우에관청은예외를허가할수있다.
- **화학물질 안전성 평가:** 화학물질 안전성 평가가 수행되지 않음

## 16 그 밖의 참고사항

이보고는우리지식에대한오늘날의상태에대하여평가하고있다  
 하지만이보고서는생산특성에관한보증은기술하지않았으며계약적인법률관계에기반을두고있지도않다

- **담당자:**
- **최초 작성일자:** 2022.04.26
- **개정 횟수 및 최종 개정일자:** 1 / 2022.04.26
- **약어와 두문자어:**  
 ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)  
 IMDG: International Maritime Code for Dangerous Goods  
 IATA: International Air Transport Association  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 PBT: Persistent, Bioaccumulative and Toxic  
 vPvB: very Persistent and very Bioaccumulative

# Helaian Data Keselamatan menurut P.U.(A) 310/2013

Tarikh cetak 26.04.2022

Disemak semula pada 26.04.2022

## 1 Pengenalan bahan kimia berbahaya dan pembekal

- **Pengenal pasti produk**
- **Nama dagang:** 1,2-dikloroetana
- **Nombor artikel:** 13250, 13251
- **Nombor CAS:**  
107-06-2
- **Nombor EC:**  
203-458-1
- **Nombor EU:**  
602-012-00-7
- **Kegunaan yang disarankan bagi bahan dan sekatan penggunaan** Tiada maklumat lanjut yang diperoleh.
- **Penggunaan bahan/sediaan** Bahan kimia makmal
- **Perincian pembekal risalah data keselamatan**
- **Pengilang/Pembekal:**  
Electron Microscopy Sciences  
1560 Industry Road  
USA-Hatfield, PA 19440  
Tel: 215-412-8400 Fax: 215-412-8450  
email: info@emsdiasum.com  
www.emsdiasum.com
- **Maklumat lanjut dapat diperoleh daripada:** Product safety department
- **Nombor telefon kecemasan:**  
ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887

## 2 Pengenalan bahaya

- **Pengelasan bahan atau campuran**



Nyalaan

Cec. M. Bkr 2 H225 Cecair dan wap amat mudah terbakar.



Bahaya kesihatan

Kars. 1B H350 Boleh menyebabkan kanser.



Toks. Akut 4 H302 Memudaratkan jika tertelan.

Kreng. Kulit 2 H315 Menyebabkan kerengsaan kulit.

Kreng. Mata 2 H319 Menyebabkan kerengsaan mata yang serius.

STOT SE 3 H335 Boleh menyebabkan kerengsaan pernafasan.

- **Melabelkan unsur**
- **Unsur label GHS** Bahan ini dikelaskan dan dilabelkan menurut Sistem Terharmoni Global (GHS).

(Bersambung ke halaman 2)

## Helaian Data Keselamatan menurut P.U.(A) 310/2013

Tarikh cetak 26.04.2022

Disemak semula pada 26.04.2022

**Nama dagang: 1,2-dikloroetana**

(Sambungan halaman 1)

· **Piktogram bahaya**



· **Kata isyarat Bahaya**

· **Pernyataan Bahaya**

*Cecair dan wap amat mudah terbakar.*

*Memudaratkan jika tertelan.*

*Menyebabkan kerengsaan kulit.*

*Menyebabkan kerengsaan mata yang serius.*

*Boleh menyebabkan kanser.*

*Boleh menyebabkan kerengsaan pernafasan.*

· **Pernyataan Berjaga-jaga**

*Jauhkan daripada haba/percikan api/nyalaan terbuka/permukaan panas – Dilarang merokok.*

*Gunakan kelengkapan elektrik/pengalihudaraan/pencahayaan yang tahan letupan.*

*JIKA TERKENA KULIT (atau rambut): Segera tanggalkan/buka semua pakaian yang tercemar. Basuh kulit dengan air/pancuran air.*

*JIKA TERKENA MATA: Bilas berhati-hati dengan air selama beberapa minit. Tanggalkan kanta lekap, jika ada dan dapat dilakukan dengan mudah. Teruskan membilas.*

*Simpan di tempat berkunci.*

*Lupuskan kandungan/bekas menurut peraturan tempatan/wilayah/kebangsaan/antarabangsa.*

· **Bahaya lain**

· **Keputusan penilaian PBT dan vPvB**

· **PBT:** Tidak berkenaan

· **vPvB:** Tidak berkenaan

### 3 Komposisi dan maklumat mengenai ramuan bahan kimia berbahaya

· **Ciri kimia: Bahan**

· **Keterangan No. CAS**

*107-06-2 1,2-dikloroetana*

· **Nombor pengenalpastian**

· **Nombor EC:** 203-458-1

· **Nombor EU:** 602-012-00-7

### 4 Langkah-langkah pertolongan cemas

· **Keterangan langkah pertolongan cemas**

· **Maklumat am:**

*Gejala keracunan boleh berlaku selepas beberapa jam, maka rawatan perubatan hendaklah diberikan sekurang-kurangnya 48 jam selepas kemalangan.*

· **Jika tersedut:**

*Jika mangsa tidak sedarkan diri, letakkan pesakit dengan stabil dalam kedudukan mengiring untuk diangkat.*

· **Jika terkena kulit:** Segera basuh dengan air dan sabun serta bilas bersih-bersih.

· **Jika terkena mata:**

*Bilas mata sambil membukanya di bawah air yang mengalir selama beberapa minit. Jika gejala berterusan, hubungi doktor.*

· **Jika tertelan:** Segera hubungi doctor.

(Bersambung ke halaman 3)

## Helaian Data Keselamatan menurut P.U.(A) 310/2013

Tarikh cetak 26.04.2022

Disemak semula pada 26.04.2022

**Nama dagang: 1,2-dikloroetana**

(Sambungan halaman 2)

- **Maklumat untuk doktor:**
- **Gejala dan kesan paling penting, akut dan lewat** Tiada maklumat lanjut yang diperoleh.
- **Arahan bagi apa-apa rawatan perubatan dan rawatan khas yang diperlukan**  
Tiada maklumat lanjut yang diperoleh.

### 5 Langkah-langkah pepadaman kebakaran

- **Bahan padam api**
- **Agen padam yang sesuai:**  
CO<sub>2</sub>, serbuk atau semburan air. Padam kebakaran besar dengan semburan air atau busa rintangan alkohol.
- **Bahaya khusus yang timbul daripada bahan atau campuran** Tiada maklumat lanjut yang diperoleh.
- **Panduan kepada padam kebakaran**
- **Kelengkapan perlindungan:** Tiada langkah khusus diperlukan.

### 6 Langkah-langkah pelepasan tidak sengaja

- **Langkah perlindungan diri, kelengkapan pelindung dan prosedur kecemasan**  
Pakai kelengkapan perlindungan. Jauhkan mereka yang tidak dilindungi dari kawasan tercemar.
- **Langkah perlindungan alam sekitar:**  
Cairkan dengan air yang banyak.  
Jangan biarkannya memasuki pembentung/air permukaan atau tanah.
- **Kaedah dan bahan untuk pembendungan dan pembersihan:**  
Serap dengan bahan cecair pengikat (pasir, diatomit, pengikat asid, pengikat semesta, habuk papan)  
Lupuskan bahan tercemar sebagai sisa mengikut perkara 13.  
Pastikan pengalihudaraan mencukupi.
- **Rujukan ke bahagian lain**  
Lihat Bahagian 7 untuk maklumat pengendalian yang selamat.  
Lihat Bahagian 8 untuk maklumat kelengkapan perlindungan diri.  
Lihat Bahagian 13 untuk maklumat pelupusan.

### 7 Pengendalian dan penyimpanan

- **Pengendalian:**
- **Langkah perlindungan untuk pengendalian selamat** Buka dan kendalikan bekas dengan cermat.
- **Maklumat kebakaran dan perlindungan daripada letupan:**  
Jauhkan dari punca pencucuhan - Dilarang merokok.  
Lindungi daripada cas-cas elektrostatik.  
Pastikan alat perlindungan pernafasan sentiasa ada.
- **Keadaan untuk penyimpanan selamat, termasuk apa-apa ketakserasian**
- **Penyimpanan:**
- **Keperluan yang mesti dipenuhi oleh bilik stor dan ruang simpanan.** Simpan di tempat sejuk.
- **Maklumat penyimpanan di dalam satu tempat penyimpanan yang biasa:** Tidak diperlukan.
- **Maklumat lanjut tentang syarat penyimpanan:**  
Pastikan bekas sentiasa bertutup rapat.  
Simpan di tempat yang sejuk dan kering di dalam bekas bertutup rapat.
- **Kegunaan akhir yang khusus** Tiada maklumat lanjut yang diperoleh.

### 8 Kawalan pendedahan dan perlindungan diri

- **Maklumat tambahan tentang reka bentuk kemudahan teknikal:** Tiada maklumat lanjut, lihat perkara 7.

(Bersambung ke halaman 4)



## Helaian Data Keselamatan menurut P.U.(A) 310/2013

Tarikh cetak 26.04.2022

Disemak semula pada 26.04.2022

**Nama dagang: 1,2-dikloroetana**

(Sambungan halaman 3)

· **Parameter kawalan**

· **Ramuhan dengan nilai had yang memerlukan pemantauan di tempat kerja:**

**107-06-2 1,2-dikloroetana**

PEL Nilai jangka panjang: 40 mg/m<sup>3</sup>, 10 ppm

· **Maklumat tambahan:** Senarai yang sah semasa pembuatan digunakan sebagai asas.

· **Kawalan pendedahan**

· **Kelengkapan perlindungan diri:**

· **Langkah perlindungan dan kebersihan am:**

Jauhkan daripada makanan, minuman dan makanan haiwan.

Sejara tanggalkan semua pakaian yang tercemar dan kotor.

Basuh tangan sebelum berhenti rehat dan apabila kerja selesai.

Simpan pakaian perlindungan secara berasingan.

Elakkan daripada terkena mata dan kulit.

· **Perlindungan pernafasan:**

Jika berlaku pendedahan sekejap atau sedikit pencemaran, gunakan alat penapis pernafasan. Jika berlaku pendedahan yang intensif atau berpanjangan, gunakan alat pernafasan perlindungan serba lengkap.

· **Perlindungan tangan:**



Sarung tangan pelindung.

Bahan sarung tangan hendaklah telus dan kalis terhadap produk/bahan/sediaan.

Oleh sebab tiada ujian yang dijalankan, maka tiada syor bagi bahan sarung tangan yang boleh diberikan untuk produk/sediaan/campuran kimia.

Pemilihan bahan sarung tangan berdasarkan waktu penembusan, kadar pembauran dan degradasi.

· **Bahan sarung tangan**

Pemilihan sarung tangan yang sesuai bukan hanya bergantung pada bahannya, tetapi juga tanda kualiti lainnya serta perbezaannya daripada satu pengeluar dengan pengeluar yang lain.

· **Jangka masa penyerapan bahan sarung tangan**

Waktu kemunculan yang tepat hendaklah diperoleh pengeluar sarung tangan pelindung dan hendaklah dipatuhi.

· **Perlindungan mata:**



Gogal bertutup rapat

### 9 Sifat fizikal dan kimia

· **Maklumat tentang ciri fizik dan kimia**

· **Maklumat Am**

· **Rupa:**

**Bentuk:**

Berminyak

**Warna:**

Tidak berwarna

· **Bau:**

Menyenangkan

· **Ambang bau**

Tidak ditentukan.

· **Nilai pH:**

Tidak ditentukan.

· **Perubahan pada keadaan**

**Takat lebur/takat beku**

-35.5 °C

(Bersambung ke halaman 5)

## Helaian Data Keselamatan menurut P.U.(A) 310/2013

Tarikh cetak 26.04.2022

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Nama dagang: 1,2-dikloroetana

(Sambungan halaman 4)

<b>Takat didih awal dan julat didih</b>	83.5 °C
· <b>Takat kilat:</b>	13 °C
· <b>Kemudahbakaran (pepejal, gas)</b>	Tidak berkenaan
· <b>Suhu pencucuhan:</b>	413-440 °C
· <b>Suhu penguraian:</b>	Tidak ditentukan.
· <b>Suhu pengautocucuhan</b>	Tidak ditentukan.
· <b>Bahaya letupan:</b>	Produk tidak mudah meletup. Walau bagaimanapun, pembentukan campuran udara/wap mungkin berlaku.
· <b>Had letupan :</b>	
<b>Bawah:</b>	6.2 Vol %
<b>Atas:</b>	15.9 Vol %
· <b>Tekanan wap pada 20 °C:</b>	87 hPa
· <b>Ketumpatan pada 20 °C:</b>	1.24 g/cm <sup>3</sup>
· <b>Ketumpatan bandingan</b>	Tidak ditentukan.
· <b>Ketumpatan wap</b>	Tidak ditentukan.
· <b>Kadar penyejatan</b>	Tidak ditentukan.
· <b>Keterlarutan dalam / Keterlarutcampuran dengan Air pada 20 °C:</b>	8 g/l
· <b>Pekali sekatan: n-oktanol/air</b>	Tidak ditentukan.
· <b>Kelikatan:</b>	
<b>Dinamik pada 20 °C:</b>	0.8 mPas
<b>Kinematik:</b>	Tidak ditentukan.
· <b>Maklumat lain</b>	Tiada maklumat lanjut yang diperoleh.

### 10 Kestabilan dan kereaktifan

- **Kereaktifan** Tiada maklumat lanjut yang diperoleh.
- **Kestabilan kimia**
- **Penguraian terma/keadaan yang perlu dielakkan:** Tiada penguraian jika digunakan mengikut spesifikasi.
- **Kemungkinan tindak balas berbahaya** Tiada tindak balas berbahaya yang diketahui.
- **Keadaan yang perlu dielakkan** Tiada maklumat lanjut yang diperoleh.
- **Bahan tidak serasi:** Tiada maklumat lanjut yang diperoleh.
- **Produk penguraian yang berbahaya:** Tiada produk penguraian berbahaya yang diketahui.

### 11 Maklumat toksikologi

- **Maklumat tentang kesan toksikologi**
- **Ketoksikan akut:**

· **Nilai LD/LC50 yang berkaitan untuk pengelasan:**

Oral	LD50	670 mg/kg (rat)
Derma	LD50	2,800 mg/kg (rat)

- **Kesan kerengsaan primer:**
- **Kakisan atau kerengsaan kulit** Merengsa kepada kulit dan mukus membran.
- **Kerosakan atau kerengsaan mata yang serius** Kesan merengsa.

(Bersambung ke halaman 6)

-MY

## Helaian Data Keselamatan menurut P.U.(A) 310/2013

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**Nama dagang: 1,2-dikloroetana**

(Sambungan halaman 5)

- **Pemakaian pernafasan / kulit** Tiada kesan pemakaian yang diketahui.
- **Maklumat bagi kumpulan berikut tentang kesan yang mungkin timbul.**
- **Kesan CMR (karsinogen, mutagen dan gangguan kesuburan)**  
Kars. 1B

### 12 Maklumat ekologi

- **Ketoksikan**
- **Ketoksikan akuatik:** Tiada maklumat lanjut yang diperoleh.
- **Keterusan dan keterdegradasikan** Tiada maklumat lanjut yang diperoleh.
- **Kelakuan dalam sistem alam sekitar:**
- **Potensi bioakumulatif** Tiada maklumat lanjut yang diperoleh.
- **Mobiliti di dalam tanah** Tiada maklumat lanjut yang diperoleh.
- **Maklumat tambahan ekologi:**
- **Nota am:**  
Bahaya air kelas 3 (Peraturan Jerman) (Penilaian mengikut senarai): amat berbahaya kepada air  
Jangan biarkan produk memasuki air tanah, saluran air atau sistem pembetulan, walaupun sedikit.  
Bahaya kepada air minuman walaupun dalam amat sedikit produk kebocoran yang memasuki tanah
- **Keputusan penilaian PBT dan vPvB**
- **PBT:** Tidak berkenaan
- **vPvB:** Tidak berkenaan
- **Kesan buruk yang lain** Tiada maklumat lanjut yang diperoleh.

### 13 Maklumat pelupusan

- **Kaedah rawatan sisa**
- **Syor:**  
Tidak boleh dilupuskan bersama dengan sampah isi rumah. Jangan biarkan produk memasuki sistem pembetulan.
- **Pembungkusan yang tidak bersih:**
- **Syor:** Pelupusan mestilah dijalankan menurut peraturan rasmi
- **Agen pencuci yang disyorkan:** Air, jika perlu, digunakan bersama dengan agen pencuci.

### 14 Maklumat pengangkutan

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>· <b>Nombor UN</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>   | <p>UN1184</p>   |
| <ul style="list-style-type: none"> <li>· <b>Nama penghantaran UN yang betul</b></li> <li>· <b>ADR</b></li> <li>· <b>IMDG</b></li> <li>· <b>IATA</b></li> </ul> | <p>1184 ETHYLENE DICHLORIDE<br/>ETHYLENE DICHLORIDE, MARINE POLLUTANT<br/>ETHYLENE DICHLORIDE</p> |
| <ul style="list-style-type: none"> <li>· <b>pengangkutan kelas bahaya</b></li> <li>· <b>ADR</b></li> </ul>   | <p>3</p>  |
| <ul style="list-style-type: none"> <li>· <b>Kelas</b></li> </ul>   | <p>3 Cecair mudah terbakar.</p>   |



(Bersambung ke halaman 7)



## Helaian Data Keselamatan menurut P.U.(A) 310/2013

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(Sambungan halaman 6)

· <b>Label</b>	3+6.1
· <b>IMDG</b>	
	
· <b>Class</b>	3 Cecair mudah terbakar.
· <b>Label</b>	3/6.1
· <b>IATA</b>	
	
· <b>Class</b>	3 Cecair mudah terbakar.
· <b>Label</b>	3 (6.1)
· <b>Kumpulan pembungkusan</b>	
· <b>ADR, IMDG, IATA</b>	II
· <b>Hazard persekitaran:</b>	
· <b>Bahan cemar marin:</b>	Tanda (ikan dan pokok)
· <b>Langkah perlindungan khas untuk pengguna</b>	Amaran: Cecair mudah terbakar.
· <b>Kod bahaya (Kemler):</b>	336
· <b>Nombor EMS:</b>	F-E, S-
· <b>Segregation groups</b>	Liquid halogenated hydrocarbons
· <b>Stowage Category</b>	B
· <b>Stowage Code</b>	SW2 Clear of living quarters.
· <b>Pengangkutan dalam pukal menurut Lampiran II MARPOL 73/78 dan Kod IBC</b>	Tidak berkenaan
· <b>Pengangkutan/Maklumat Tambahan:</b>	
· <b>ADR</b>	
· <b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	II
· <b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <b>"Peraturan Model" UN:</b>	UN 1184 ETHYLENE DICHLORIDE, 3 (6.1), II

### 15 Maklumat pengawalseliaan

- Peraturan/undang-undang keselamatan, kesihatan dan persekitaran khusus untuk bahan atau campuran tersebut
- Senarai Rujukan Bahan Berbahaya Alam Sekitar Bahan disenaraikan.
- Unsur label GHS Bahan ini dikelaskan dan dilabelkan menurut Sistem Terharmonisasi Global (GHS).

(Bersambung ke halaman 8)

## Helaian Data Keselamatan menurut P.U.(A) 310/2013

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**Nama dagang: 1,2-dikloroetana**

(Sambungan halaman 7)

· **Piktogram hazard**



· **Perkataan isyarat Bahaya**

· **Pernyataan hazard**

Cecair dan wap amat mudah terbakar.

Memudaratkan jika tertelan.

Menyebabkan kerengsaan kulit.

Menyebabkan kerengsaan mata yang serius.

Boleh menyebabkan kanser.

Boleh menyebabkan kerengsaan pernafasan.

· **Pernyataan langkah perlindungan**

Jauhkan daripada haba/percikan api/nyalaan terbuka/permukaan panas – Dilarang merokok.

Gunakan kelengkapan elektrik/pengalihudaraan/pencahayaan yang tahan letupan.

**JIKA TERKENA KULIT (atau rambut):** Segera tanggalkan/buka semua pakaian yang tercemar. Basuh kulit dengan air/pancuran air.

**JIKA TERKENA MATA:** Bilas berhati-hati dengan air selama beberapa minit. Tanggalkan kanta lekap, jika ada dan dapat dilakukan dengan mudah. Teruskan membilas.

Simpan di tempat berkunci.

Lupuskan kandungan/bekas menurut peraturan tempatan/wilayah/kebangsaan/antarabangsa.

· **Peraturan kebangsaan:**

· **Maklumat had kegunaan:**

Pekerja tidak dibenarkan terdedah kepada bahan berbahaya ini. Pengecualian boleh dibuat oleh pihak berkuasa dalam kes tertentu.

· **Penilaian keselamatan bahan kimia:** Penilaian Keselamatan Bahan Kimia belum dilakukan.

### 16 Maklumat lain

Maklumat ini berdasarkan maklumat kami yang terkini. Walau bagaimanapun, ini tidak akan menjadi jaminan bagi apa-apa ciri produk yang khusus dan tidak akan mewujudkan hubungan kontraktual yang sah dari segi undang-undang.

· **Hubungi:**

· **Singkatan dan akronim:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Cec. M. Bkr 2: Cecair mudah terbakar – Kategori 2

Toks. Akut 4: Ketoksikan akut – Kategori 4

Kreng. Kulit 2: Kakisan atau kerengsaan kulit – Kategori 2

Kreng. Mata 2: Kerosakan mata atau kerengsaan mata yang serius – Kategori 2

Kars. 1B: Kekarsinogenan – Kategori 1B

STOT SE 3: Ketoksikan organ sasaran khusus (pendedahan tunggal) – Kategori 3

**Ficha de dados de segurança**  
em conformidade com 1907/2006/CE, Artigo 31º

data da impressão 26.04.2022

Revisão: 26.04.2022

### SECÇÃO 1: Identificação da substância/mistura e da sociedade/empresa

- **1.1 Identificador do produto**
- **Nome comercial:** 1,2-dicloroetano
- **Código do produto:** 13250, 13251
- **Nº CAS:**  
107-06-2
- **Número CE:**  
203-458-1
- **Número de índice:**  
602-012-00-7
- **1.2 Utilizações identificadas relevantes da substância ou mistura e utilizações desaconselhadas**  
Não existe mais nenhuma informação relevante disponível.
- **Utilização da substância / da preparação** Químicos de laboratório
- **1.3 Identificação do fornecedor da ficha de dados de segurança**
- **Fabricante/fornecedor:**  
Electron Microscopy Sciences  
1560 Industry Road  
USA-Hatfield, PA 19440  
Tel: 215-412-8400 Fax: 215-412-8450  
email: info@emsdiasum.com  
www.emsdiasum.com
- **Entidade para obtenção de informações adicionais:** Product safety department
- **1.4 Número de telefone de emergência:**  
ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887

### SECÇÃO 2: Identificação dos perigos

- **2.1 Classificação da substância ou mistura**
- **Classificação em conformidade com o Regulamento (CE) n.º 1272/2008**



GHS02 chama

Flam. Liq. 2 H225 Líquido e vapor facilmente inflamáveis.



GHS08 perigo para a saúde

Carc. 1B H350 Pode provocar cancro.



GHS07

Acute Tox. 4 H302 Nocivo por ingestão.

Skin Irrit. 2 H315 Provoca irritação cutânea.

Eye Irrit. 2 H319 Provoca irritação ocular grave.

STOT SE 3 H335 Pode provocar irritação das vias respiratórias.

- **2.2 Elementos do rótulo**
- **Rotulagem em conformidade com o Regulamento (CE) n.º 1272/2008**  
A substância classificou-se e está etiquetado em conformidade com o regulamento CLP.

( continuação na página 2 )

# Ficha de dados de segurança

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(continuação da página 1)

· **Pictogramas de perigo**

GHS02 GHS07 GHS08

· **Palavra-sinal Perigo**· **Advertências de perigo**

H225 Líquido e vapor facilmente inflamáveis.

H302 Nocivo por ingestão.

H315 Provoca irritação cutânea.

H319 Provoca irritação ocular grave.

H350 Pode provocar cancro.

H335 Pode provocar irritação das vias respiratórias.

· **Recomendações de prudência**

P210 Manter afastado do calor, superfícies quentes, faíscas, chamas abertas e outras fontes de ignição. Não fumar.

P241 Utilizar equipamento [elétrico/de ventilação/de iluminação] à prova de explosão.

P303+P361+P353 SE ENTRAR EM CONTACTO COM A PELE (ou o cabelo): Retirar imediatamente toda a roupa contaminada. Enxaguar a pele com água [ou tomar um duche].

P305+P351+P338 SE ENTRAR EM CONTACTO COM OS OLHOS: Enxaguar cuidadosamente com água durante vários minutos. Se usar lentes de contacto, retire-as, se tal lhe for possível. Continue a enxaguar.

P405 Armazenar em local fechado à chave.

P501 Eliminar o conteúdo/recipiente de acordo com a legislação local/regional/nacional/internacional.

· **2.3 Outros perigos**· **Resultados da avaliação PBT e mPmB**· **PBT:** Não aplicável.· **mPmB:** Não aplicável.

## SECÇÃO 3: Composição/informação sobre os componentes

· **3.1 Caracterização química: Substâncias**· **Designação CAS n°**

107-06-2 1,2-dicloroetano

· **Número(s) de identificação**· **Número CE:** 203-458-1· **Número de índice:** 602-012-00-7· **SVHC**

107-06-2 | 1,2-dicloroetano

## SECÇÃO 4: Medidas de primeiros socorros

· **4.1 Descrição das medidas de primeiros socorros**· **Indicações gerais:**

Os sintomas de envenenamento podem surgir apenas após várias horas, por isso é necessária vigilância médica pelo menos 48 horas após o acidente.

· **Em caso de inalação:**

Se a vítima estiver inconsciente, posicione-a e transporte-a com estabilidade, deitada lateralmente.

· **Em caso de contacto com a pele:** Lavar imediatamente com água e sabão e enxaguar abundantemente.

(continuação na página 3)



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( continuação da página 2 )

- **Em caso de contacto com os olhos:**  
*Enxaguar os olhos durante alguns minutos sob água corrente, mantendo as pálpebras abertas. Em caso de persistência dos sintomas, consultar o médico.*
- **Em caso de ingestão:** *Consultar imediatamente o médico*
- **4.2 Sintomas e efeitos mais importantes, tanto agudos como retardados**  
*Não existe mais nenhuma informação relevante disponível.*
- **4.3 Indicações sobre cuidados médicos urgentes e tratamentos especiais necessários**  
*Não existe mais nenhuma informação relevante disponível.*

### SECCÃO 5: Medidas de combate a incêndios

- **5.1 Meios de extinção**
- **Meios adequados de extinção:**  
*CO2, pó extintor ou jacto de água. Um incêndio de grandes dimensões deve ser combatido com jacto de água ou espuma resistente ao álcool.*
- **5.2 Perigos especiais decorrentes da substância ou mistura**  
*Não existe mais nenhuma informação relevante disponível.*
- **5.3 Recomendações para o pessoal de combate a incêndios**
- **Equipamento especial de protecção:** *Não são necessárias medidas especiais.*

### SECCÃO 6: Medidas a tomar em caso de fugas acidentais

- **6.1 Precauções individuais, equipamento de protecção e procedimentos de emergência**  
*Usar equipamento de protecção. Manter as pessoas desprotegidas afastadas.*
- **6.2 Precauções a nível ambiental:**  
*Diluir em bastante água.*  
*Evitar que penetre na canalização / águas superficiais / águas subterrâneas.*
- **6.3 Métodos e materiais de confinamento e limpeza:**  
*Recolher com produtos que absorvam líquidos (areia, seixos, absorventes universais, serradura ).*  
*Eliminar residualmente as substâncias contaminadas como um resíduo segundo o Ponto 13.*  
*Assegurar uma ventilação adequada.*
- **6.4 Remissão para outras secções**  
*Para informações sobre uma manipulação segura, ver o capítulo 7.*  
*Para informações referentes ao equipamento de protecção individual, ver o capítulo 8.*  
*Para informações referentes à eliminação residual, ver o capítulo 13.*

### SECCÃO 7: Manuseamento e armazenagem

- **7.1 Precauções para um manuseamento seguro** *Abrir e manusear o recipiente com cuidado*
- **Precauções para prevenir incêndios e explosões:**  
*Manter afastado de fontes de ignição - não fumar.*  
*Proteger contra descargas electrostáticas.*  
*Manter uma máscara de respiração sempre preparada.*
- **7.2 Condições de armazenagem segura, incluindo eventuais incompatibilidades**
- **Armazenagem:**
- **Requisitos para espaços ou contentores para armazenagem:** *Armazenar num local fresco.*
- **Avisos para armazenagem conjunta:** *Não necessário.*
- **Outros avisos sobre as condições de armazenagem:**  
*Manter o recipiente hermeticamente fechado.*  
*Armazenar em recipientes bem fechados, em local fresco e seco.*

( continuação na página 4 )



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(continuação da página 3)

· 7.3 Utilização(ões) final(is) específica(s) Não existe mais nenhuma informação relevante disponível.

## SECÇÃO 8: Controlo da exposição/Protecção individual

- 8.1 Parâmetros de controlo
- Indicações adicionais para concepção de instalações técnicas: Não existem outras informações, ver ponto 7.

· Componentes cujo valor do limite de exposição no local de trabalho deve ser monitorizado:

107-06-2 1,2-dicloroetano

VLE	Valor para exposição longa: 10 ppm A4; Lesão hepática; náuseas
-----	---

· Indicações adicionais: Foram utilizadas como base as listas válidas à data da elaboração.

· 8.2 Controlo da exposição

· Equipamento de protecção individual:

· Medidas gerais de protecção e higiene:

Manter afastado de alimentos, bebidas e forragens.

Despir imediatamente a roupa contaminada e embebida.

Lavar as mãos antes das pausas e no fim do trabalho.

Guardar o vestuário de protecção separadamente.

Evitar o contacto com os olhos e com a pele.

· Protecção respiratória:

Utilizar uma máscara respiratória se a exposição for reduzida ou durante um curto espaço de tempo; se esta for mais prolongada ou mais intensa, utilizar uma máscara respiratória independente do ar ambiente.

· Protecção das mãos:



Luvas de protecção

O material das luvas tem de ser impermeável e resistente ao produto / à substância / preparação.

Uma vez que não foram realizados testes nesta área, não podemos recomendar um determinado tipo de material para as luvas que seja adequado para o produto / a preparação / a mistura de químicos.

Escolher o material das luvas tendo em consideração a durabilidade, a permeabilidade e a degradação.

· Material das luvas

A escolha das luvas mais adequadas não depende apenas do material, mas também de outras características qualitativas e varia de fabricante para fabricante.

· Tempo de penetração no material das luvas

Deve informar-se sobre a validade exacta das suas luvas junto do fabricante e respeitá-la.

· Protecção dos olhos:



Óculos de protecção totalmente fechados

## SECÇÃO 9: Propriedades físico-químicas

· 9.1 Informações sobre propriedades físicas e químicas de base

· Informações gerais

· Aspeto:

Forma:

Oleoso

Cor:

Incolor

(continuação na página 5)

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( continuação da página 4 )

· <b>Odor:</b>	Agradável
· <b>Limiar olfactivo:</b>	Não determinado.
· <b>valor pH:</b>	Não determinado.
· <b>Mudança do estado:</b>	
<b>Ponto de fusão/ponto de congelação:</b>	-35,5 °C
<b>Ponto de ebulição inicial e intervalo de ebulição:</b>	83,5 °C
· <b>Ponto de inflamação:</b>	13 °C
· <b>Inflamabilidade (sólido, gás):</b>	Não aplicável.
· <b>Temperatura de ignição:</b>	413-440 °C
· <b>Temperatura de decomposição:</b>	Não determinado.
· <b>Temperatura de autoignição:</b>	Não determinado.
· <b>Propriedades explosivas:</b>	O produto não é explosivo. Contudo, é possível a formação de misturas explosivas ar/vapor.
· <b>Limites de explosão:</b>	
<b>Inferior:</b>	6,2 Vol %
<b>Superior:</b>	15,9 Vol %
· <b>Pressão de vapor em 20 °C:</b>	87 hPa
· <b>Densidade em 20 °C:</b>	1,24 g/cm <sup>3</sup>
· <b>Densidade relativa</b>	Não determinado.
· <b>Densidade de vapor</b>	Não determinado.
· <b>Taxa de evaporação:</b>	Não determinado.
· <b>Solubilidade em / miscibilidade com água em 20 °C:</b>	8 g/l
· <b>Coeficiente de partição: n-octanol/água</b>	Não determinado.
· <b>Viscosidade:</b>	
<b>Dinâmico em 20 °C:</b>	0,8 mPas
<b>Cinemático:</b>	Não determinado.
· <b>9.2 Outras informações</b>	Não existe mais nenhuma informação relevante disponível.

### SECÇÃO 10: Estabilidade e reactividade

- **10.1 Reactividade** Não existe mais nenhuma informação relevante disponível.
- **10.2 Estabilidade química**
- **Decomposição térmica / condições a evitar:** Não existe decomposição se usado de acordo com as especificações.
- **10.3 Possibilidade de reações perigosas** Não se conhecem reacções perigosas.
- **10.4 Condições a evitar** Não existe mais nenhuma informação relevante disponível.
- **10.5 Materiais incompatíveis:** Não existe mais nenhuma informação relevante disponível.
- **10.6 Produtos de decomposição perigosos:** Não se conhecem produtos de decomposição perigosos.

PT

( continuação na página 6 )

# Ficha de dados de segurança

## em conformidade com 1907/2006/CE, Artigo 31º

data da impressão 26.04.2022

Revisão: 26.04.2022

Nome comercial: 1,2-dicloroetano

(continuação da página 5)

### SECÇÃO 11: Informação toxicológica

#### · 11.1 Informações sobre os efeitos toxicológicos

##### · Toxicidade aguda

Nocivo por ingestão.

#### · Valores LD/LC50 relevantes para a classificação:

por via oral	LD50	670 mg/kg (rat)
por via dérmica	LD50	2.800 mg/kg (rat)

#### · Efeito de irritabilidade primário:

##### · Corrosão/irritação cutânea

Provoca irritação cutânea.

##### · Lesões oculares graves/irritação ocular

Provoca irritação ocular grave.

##### · Sensibilização respiratória ou cutânea

Com base nos dados disponíveis, os critérios de classificação não são preenchidos.

##### · Avisos adicionais de toxicologia:

#### · Efeitos CMR (carcinogenicidade, mutagenicidade e efeitos tóxicos na reprodução)

##### · Mutagenicidade em células germinativas

Com base nos dados disponíveis, os critérios de classificação não são preenchidos.

##### · Carcinogenicidade

Pode provocar cancro.

##### · Toxicidade reprodutiva Com base nos dados disponíveis, os critérios de classificação não são preenchidos.

##### · Toxicidade para órgãos-alvo específicos (STOT) - exposição única

Pode provocar irritação das vias respiratórias.

##### · Toxicidade para órgãos-alvo específicos (STOT) - exposição repetida

Com base nos dados disponíveis, os critérios de classificação não são preenchidos.

##### · Perigo de aspiração Com base nos dados disponíveis, os critérios de classificação não são preenchidos.

### SECÇÃO 12: Informação ecológica

#### · 12.1 Toxicidade

· Toxicidade aquática: Não existe mais nenhuma informação relevante disponível.

· 12.2 Persistência e degradabilidade Não existe mais nenhuma informação relevante disponível.

· 12.3 Potencial de bioacumulação Não existe mais nenhuma informação relevante disponível.

· 12.4 Mobilidade no solo Não existe mais nenhuma informação relevante disponível.

#### · Outras indicações ecológicas:

##### · Indicações gerais:

Classe de perigo para a água 3 (D) (classificação pelas listas): muito perigoso para a água

Não deixar chegar às águas subterrâneas, aos cursos de água nem à canalização, nem em pequenas quantidades.

Perigo de poluição da água potável mesmo se forem derramadas quantidades muito pequenas no subsolo.

#### · 12.5 Resultados da avaliação PBT e mPmB

· PBT: Não aplicável.

· mPmB: Não aplicável.

· 12.6 Outros efeitos adversos Não existe mais nenhuma informação relevante disponível.

### SECÇÃO 13: Considerações relativas à eliminação

#### · 13.1 Métodos de tratamento de resíduos

· Recomendação: Não se pode eliminar juntamente com o lixo doméstico. Não permita que chegue à canalização.

(continuação na página 7)

**Ficha de dados de segurança**  
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( continuação da página 6 )

- **Embalagens contaminadas:**
- **Recomendação:** Eliminação residual conforme o regulamento dos serviços públicos.
- **Meio de limpeza recomendado:** Água, eventualmente com adição de produtos de limpeza

### SECÇÃO 14: Informações relativas ao transporte

- **14.1 Número ONU**
- **ADR, IMDG, IATA**

UN1184

- **14.2 Designação oficial de transporte da ONU**

- **ADR**
- **IMDG**
- **IATA**

1184 DICLORETO DE ETILENO  
ETHYLENE DICHLORIDE, MARINE POLLUTANT  
ETHYLENE DICHLORIDE

- **14.3 Classes de perigo para efeitos de transporte**

- **ADR**



- **Classe**
- **Rótulo**

3 Líquidos inflamáveis  
3+6.1

- **IMDG**



- **Class**
- **Label**

3 Líquidos inflamáveis  
3/6.1

- **IATA**



- **Class**
- **Label**

3 Líquidos inflamáveis  
3 (6.1)

- **14.4 Grupo de embalagem**

- **ADR, IMDG, IATA**

II

- **14.5 Perigos para o ambiente:**

- **Poluente das águas:**

Símbolo convencional (peixes e árvore)

- **14.6 Precauções especiais para o utilizador**

- **Número de identificação de perigo (Nº Kemler):**
- **Nº EMS:**
- **Segregation groups**
- **Stowage Category**
- **Stowage Code**

Atenção: Líquidos inflamáveis  
336  
F-E, S-  
Liquid halogenated hydrocarbons  
B  
SW2 Clear of living quarters.

( continuação na página 8 )

**Ficha de dados de segurança**  
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(continuação da página 7)

· 14.7 Transporte a granel em conformidade com o anexo II da Convenção MARPOL e o Código IBC Não aplicável.

· Transporte/outras informações:

· ADR

· Quantidades Limitadas (LQ)

1L

· Quantidades exceptuadas (EQ)

Código: E2

Quantidade líquida máxima por embalagem interior: 30 ml

Quantidade líquida máxima por embalagem exterior: 500 ml

· Categoria de transporte

2

· Código de restrição em túneis

D/E

· IMDG

· Limited quantities (LQ)

1L

· Excepted quantities (EQ)

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

· UN "Model Regulation":

UN 1184 DICLORETO DE ETILENO, 3 (6.1), II

### SECÇÃO 15: Informação sobre regulamentação

· 15.1 Regulamentação/legislação específica para a substância ou mistura em matéria de saúde, segurança e ambiente

· Diretiva 2012/18/UE

· Substâncias perigosas designadas - ANEXO I A substância não está listada.

· Categoria "Seveso" P5c LÍQUIDOS INFLAMÁVEIS

· Quantidades-limiar (em toneladas), para a aplicação de requisitos de nível inferior 5.000 t

· Quantidades-limiar (em toneladas), para a aplicação de requisitos de nível superior 50.000 t

· LISTA DAS SUBSTÂNCIAS SUJEITAS A AUTORIZAÇÃO (ANEXO XIV) Sunset date: 2017-11-22

· Regulamento (CE) n.º 1907/2006 ANEXO XVII Condições de limitação: 3, 28, 40

· Regulamento (UE) N.º 649/2012

Annex I Part 1

Annex I Part 3

· Directiva 2011/65/UE relativa à restrição do uso de determinadas substâncias perigosas em equipamentos eléctricos e electrónicos - Anexo II

A substância não está listada.

· REGULAMENTO (UE) 2019/1148

· Anexo I - PRECURSORES DE EXPLOSIVOS OBJETO DE RESTRIÇÕES (Valor-limite máximo para efeitos de licenciamento nos termos do artigo 5.º, n.º 3)

A substância não está listada.

· Anexo II - PRECURSORES DE EXPLOSIVOS PASSÍVEIS DE PARTICIPAÇÃO

A substância não está listada.

· Regulamento (CE) n.º 273/2004 relativo aos precursores de drogas A substância não está listada.

· Regulamento (CE) n.º 111/2005 que estabelece regras de controlo do comércio de precursores de drogas entre a Comunidade e países terceiros

A substância não está listada.

· Disposições nacionais:

· Avisos para limitação da exposição no local de trabalho:

Os trabalhadores não devem ser expostos a substâncias perigosas. Em casos isolados os serviços públicos podem permitir excepções.

(continuação na página 9)

**Ficha de dados de segurança**  
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Revisão: 26.04.2022

Nome comercial: 1,2-dicloroetano

( continuação da página 8 )

· outros regulamentos, restrições e decretos que proibem

· **Substâncias que suscitam elevada preocupação (SVHC) em conformidade com REACH, artigo 57**

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· **15.2 Avaliação da segurança química:** Não foi realizada nenhuma Avaliação de Segurança Química.

### **SECÇÃO 16: Outras informações**

As informações fornecidas baseiam-se no estado actual dos nossos conhecimentos, embora não representem uma garantia das propriedades do produto e não fundamentam uma relação contratual.

· **Abreviaturas e acrónimos:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Líquidos inflamáveis – Categoria 2

Acute Tox. 4: Toxicidade aguda – Categoria 4

Skin Irrit. 2: Corrosão/irritação cutânea – Categoria 2

Eye Irrit. 2: Lesões oculares graves/irritação ocular – Categoria 2

Carc. 1B: Carcinogenicidade – Categoria 1B

STOT SE 3: Toxicidade para órgãos-alvo específicos (exposição única) – Categoria 3

# Паспорт безопасности в соответствии с ГОСТ 30333-2007

Дата печати: 26.04.2022

Дата редактирования: 26.04.2022

## 1 Идентификация химической продукции и сведения о производителе или поставщике

- **Идентификатор продукта**
- **Торговое наименование:** **ETHYLENE DICHLORIDE**
- **Артикульный номер:** 13250, 13251
- **Номер CAS:**  
107-06-2
- **Номер ЕС:**  
203-458-1
- **Порядковый номер:**  
602-012-00-7
- **Соответствующие установленные применения вещества или смеси и не рекомендуемые области использования**  
Отсутствует какая-либо соответствующая информация.
- **Применение вещества / препарата** Лабораторные химикаты
- **Подробная информация поставщика паспорта безопасности**
- **Производитель / Поставщик:**  
Electron Microscopy Sciences  
1560 Industry Road  
USA-Hatfield, PA 19440  
Tel: 215-412-8400 Fax: 215-412-8450  
email: info@emsdiasum.com  
www.emsdiasum.com
- **Отдел, предоставляющий информацию:** Product safety department
- **Номер телефона экстренной связи:**  
ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887

## 2 Идентификация опасности (опасностей)

- **Классификация вещества или смеси**



пламя

Воспламеняющаяся жидкость 2 H225 Легко воспламеняющаяся жидкость и пар.



опасность для здоровья

Канцерогенность 1B

H350 Может вызывать рак.



Острая токсичность 4

H302 Вредно при проглатывании.

Раздражение кожи 2

H315 Вызывает раздражение кожи.

Eye Irritation 2A

H319 Вызывает серьезное раздражение глаз.

СТОМ - однократно 3

H335 Может вызывать раздражение дыхательных путей.

Острая токсичность 5

H313 Может нанести вред при контакте с кожей.

(Продолжение на странице 2)



# Паспорт безопасности в соответствии с ГОСТ 30333-2007

Дата печати: 26.04.2022

Дата редактирования: 26.04.2022

**Торговое наименование: ETHYLENE DICHLORIDE**

(Продолжение страницы 1)

- **Элементы маркировки**

- **Элементы маркировки в соответствии с СГС**

Данное вещество классифицируется и маркируется в соответствии с Согласованной на глобальном уровне системой классификации и маркировки химических веществ (GHS).

- **Пиктограммы, обозначающие опасности**



GHS02    GHS07    GHS08

- **Сигнальное слово** Опасно

- **Предупреждения об опасности**

Легко воспламеняющаяся жидкость и пар.

Вредно при проглатывании.

Может нанести вред при контакте с кожей.

Вызывает раздражение кожи.

Вызывает серьезное раздражение глаз.

Может вызывать рак.

Может вызывать раздражение дыхательных путей.

- **Меры предосторожности**

Бережь от тепла/искр/открытого огня/горячих поверхностей. – Не курить.

Использовать взрывобезопасное электрическое / вентиляционное / осветительное оборудование.

**ПРИ ПОПАДАНИИ НА КОЖУ (или волосы):** Немедленно снять всю загрязненную одежду. Промыть кожу водой/под душем.

**ПРИ ПОПАДАНИИ В ГЛАЗА:** Осторожно промыть глаза водой в течение нескольких минут. Снять контактные линзы, если вы пользуетесь ими и если это легко сделать. Продолжить промывание глаз.

Хранить под замком.

Утилизировать содержимое / тару в соответствии с местными / региональными / национальными / международными предписаниями.

- **Другие опасные факторы**

- **Результаты оценки PBT (устойчивое биоаккумулятивное токсическое вещество) и vPvB (очень устойчивое биоаккумулятивное вещество)**

- **PBT:** Неприменимо.

- **vPvB:** Неприменимо.

### 3 Состав (информация о компонентах)

- **Химическая характеристика: Вещества**

- **Обозначение номера CAS**

107-06-2 ETHYLENE DICHLORIDE

- **Идентификационный (-ые) номер (-а)**

- **Номер ЕС:** 203-458-1

- **Порядковый номер:** 602-012-00-7

### 4 Меры первой помощи

- **Описание мер первой медицинской помощи**

- **Общие указания:**

Симптомы отравления могут проявиться даже спустя много часов, поэтому имеется необходимость в медицинском надзоре в течение как минимум 48 часов после аварии (несчастного случая).

(Продолжение на странице 3)



# Паспорт безопасности

## в соответствии с ГОСТ 30333-2007

Дата печати: 26.04.2022

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**Торговое наименование: ETHYLENE DICHLORIDE**

(Продолжение страницы 2)

- **После вдыхания:**  
При потере сознания (обморочном состоянии) положить пациента на бок в стабильном положении для транспортировки.
- **После контакта с кожей:** Немедленно промыть с помощью воды и мыла, хорошо сполоснуть.
- **После контакта с глазами:**  
Промойте открытый глаз под проточной водой в течение нескольких минут. При сохранении симптомов обратитесь к врачу.
- **После проглатывания:** Немедленно вызвать врача.
- **Указания для врача:**
- **Наиболее важные симптомы и эффекты, как немедленные, так и проявляющиеся впоследствии**  
Отсутствует какая-либо соответствующая информация.
- **Указание на необходимость оперативной медицинской помощи и специального режима**  
Отсутствует какая-либо соответствующая информация.

### 5 Меры и средства обеспечения пожаровзрывобезопасности

- **Средства пожаротушения**
- **Надлежащие средства тушения:**  
CO<sub>2</sub>, порошковое средство для тушения или водяная струя мелкого разбрызгивания. При борьбе с крупными пожарами следует применять водяную струю мелкого разбрызгивания или спиртоустойчивую пену.
- **Особые опасности, создаваемые веществом или смесью**  
Отсутствует какая-либо соответствующая информация.
- **Рекомендации для пожарных**
- **Защитное оснащение:** Нет необходимости в каких-либо специальных мерах.

### 6 Меры по предотвращению и ликвидации аварийных и чрезвычайных ситуаций и их последствий

- **Меры по обеспечению личной безопасности, защитное снаряжение и порядок действий в чрезвычайной ситуации**  
Надеть защитное снаряжение. Держать на отдалении незащищённых людей.
- **Меры по защите окружающей среды:**  
Разбавить большим количеством воды.  
Не допускать попадания в канализационную систему / поверхностные или грунтовые воды.
- **Методы и материалы для локализации и очистки:**  
Собрать при помощи связывающего жидкость материала (песка, кизельгура, кислотнo-вяжущего средства, универсальных вяжущих средств, опилок).  
Утилизировать заражённый материал как отходы в соответствии с Пунктом 13.  
Обеспечить достаточную вентиляцию.
- **Ссылки на другие разделы**  
Информация по безопасному обращению - в Главе 7.  
Информация по индивидуальному защитному снаряжению - в Главе 8.  
Информация по утилизации - в Главе 13.

### 7 Правила хранения химической продукции и обращения с ней при погрузочно-разгрузочных работах

- **Обращение с веществом:**
- **Меры предосторожности по безопасному обращению**  
Соблюдать осторожность при открывании ёмкостей и при обращении с ними.

(Продолжение на странице 4)

# Паспорт безопасности в соответствии с ГОСТ 30333-2007

Дата печати: 26.04.2022

Дата редактирования: 26.04.2022

**Торговое наименование: ETHYLENE DICHLORIDE**

(Продолжение страницы 3)

- **Указания по защите от пожаров и взрывов:**  
 Держать подальше от источников воспламенения - не курить.  
 Принять меры против электростатического заряжения.  
 Держать наготове устройство защиты органов дыхания.
- **Условия безопасного хранения, включая несовместимости**
- **Хранение:**
- **Требования, предъявляемые к складским помещениям и таре:** Хранить в прохладном месте.
- **Указания по совместимости с другими веществами при хранении:** Не требуется.
- **Дальнейшие данные по условиям хранения:**  
 Держать ёмкости плотно закрытыми.  
 Хранить в хорошо закрытой таре в прохладном и сухом месте.
- **Характерное конечное применение (или применения)**  
 Отсутствует какая-либо соответствующая информация.

## 8 Средства контроля за опасным воздействием и средства индивидуальной защиты

- **Дополнительные указания по структуре технических устройств:**  
 Никаких дополнительных данных; см. Пункт 7.

- **Параметры контроля**

- **Составляющие компоненты с предельными значениями, требующие мониторинга на рабочих местах:**

**107-06-2 ETHYLENE DICHLORIDE**

PDK	ПДК с.с.: 10 мг/м <sup>3</sup> ПДК м.р.: 30 мг/м <sup>3</sup> n; +;
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- **Дополнительные указания:**  
 В качестве основы послужили списки, являвшиеся на момент составления актуальными.
- **Требования по охране труда и меры по обеспечению безопасности персонала**
- **Средства индивидуальной защиты:**
- **Общие меры по защите от воздействия и гигиене:**  
 Держать подальше от продуктов питания, напитков и корма для животных.  
 Немедленно снять всю загрязнённую и пропитанную вредными веществами одежду.  
 Мыть руки перед перерывами и по окончании работы.  
 Хранить защитную одежду отдельно.  
 Избегать контакта с глазами и с кожей.
- **Защита органов дыхания:**  
 При кратковременном контакте с веществом или при воздействии вещества низкой концентрации пользоваться фильтрующим устройством для защиты органов дыхания. При интенсивном или более продолжительном контакте следует воспользоваться автономным устройством защиты органов дыхания.
- **Защита рук:**



Защитные перчатки (рукавицы).

Материал перчаток / рукавиц должен быть устойчивым к воздействию продукта / вещества / препарата и не пропускать их.

Никаких рекомендаций в отношении материала перчаток / рукавиц, пригодных для применения в ходе работы с продуктом / препаратом / смесью химикатов дать нельзя, так как никаких испытаний в этом отношении не проводилось.

(Продолжение на странице 5)

# Паспорт безопасности

## в соответствии с ГОСТ 30333-2007

Дата печати: 26.04.2022

Дата редактирования: 26.04.2022

**Торговое наименование: ETHYLENE DICHLORIDE**

(Продолжение страницы 4)

Выбор материала перчаток / рукавиц производится с учётом времени прорыва, степени проницаемости и эрозии.

**· Материал перчаток / рукавиц**

Выбор подходящих перчаток / рукавиц определяется не только материалом, но также и другими качественными особенностями, причём между различными производителями существует большая разница.

**· Период проницаемости материала перчаток / рукавиц.**

Необходимо осведомиться у производителя защитных перчаток / рукавиц о точном времени прорыва и придерживаться его.

**· Защита глаз:**



Плотно прилегающие защитные очки

### 9 Физико-химические свойства

**· Информация по основным физическим и химическим свойствам**

**· Общая информация**

**· Внешний вид:**

**Форма:** Маслянистое

**Цвет:** Бесцветное

**· Запах:** Приятно

**· Порог запаха:** Не определено.

**· Значение pH:** Не определено.

**· Изменение состояния**

**Точка плавления / интервал температур плавления:** -35,5 °C

**Точка кипения / интервал температур кипения:** 83,5 °C

**· Температурная точка вспышки:** 13 °C

**· Воспламеняемость (твёрдое, газообразное вещество):** Неприменимо.

**· Температура воспламенения:** 413-440 °C

**· Температура распада:** Не определено.

**· Самовоспламеняемость:** Не определено.

**· Взрывоопасность:** Продукт не является взрывоопасным, однако возможно образование взрывоопасных смесей пара / воздуха.

**· Границы взрываемости:**

**Нижняя:** 6,2 пол. %

**Верхняя:** 15,9 пол. %

**· Давление пара при 20 °C:** 87 гПа

**· Плотность при 20 °C:** 1,24 г/см<sup>3</sup>

**· Относительная плотность** Не определено.

**· Плотность пара** Не определено.

**· Скорость испарения** Не определено.

(Продолжение на странице 6)

# Паспорт безопасности в соответствии с ГОСТ 30333-2007

Дата печати: 26.04.2022

Дата редактирования: 26.04.2022

**Торговое наименование: ETHYLENE DICHLORIDE**

(Продолжение страницы 5)

· <b>Растворимость в / Смешиваемость с водой при 20 °С:</b>	8 г/л
· <b>Коэффициент распределения (n-октанол / вода):</b>	Не определено.
· <b>Вязкость:</b> Динамическая при 20 °С: Кинематическая:	0,8 mPas Не определено.
· <b>Другая информация</b>	Отсутствует какая-либо соответствующая информация.

## 10 Стабильность и реакционная способность

- **Реакционная способность** Отсутствует какая-либо соответствующая информация.
- **Химическая стабильность**
- **Термический распад / условия, которых следует избегать:**  
При использовании в соответствии с предписаниями не происходит никакого распада.
- **Возможность опасных реакций** Неизвестно ни о каких опасных реакциях.
- **Условия, вызывающие опасные изменения** Отсутствует какая-либо соответствующая информация.
- **Несовместимые материалы:** Отсутствует какая-либо соответствующая информация.
- **Опасные продукты распада:** Неизвестно ни о каких опасных продуктах распада.

## 11 Информация о токсичности

- **Информация по токсикологическому воздействию**
- **Острая токсичность:**

· **Значения LD/LC50 (летальной дозы/концентрации), необходимые для классифицирования:**

Орально (через рот)	LD50	670 мг/кг (rat)
Дермально (через кожу)	LD50	2.800 мг/кг (rat)

- **Первичное раздражающее воздействие:**
- **на кожу:** Раздражает кожу и слизистые оболочки.
- **на глаза:** Раздражающее воздействие.
- **Сенсибилизация:** Неизвестно о наличии сенсибилизирующего воздействия.
- **Информация по следующим группам потенциальных воздействий:**
- **Канцерогенное, изменяющее наследственность и вызывающее бесплодие действие**  
Канцерогенность 1В

## 12 Информация о воздействии на окружающую среду

- **Токсичность**
- **Акватоксичность:** Отсутствует какая-либо соответствующая информация.
- **Стойкость и склонность к деградации** Отсутствует какая-либо соответствующая информация.
- **Поведение в экологических системах:**
- **Биоаккумулятивный потенциал** Отсутствует какая-либо соответствующая информация.
- **Подвижность в грунте** Отсутствует какая-либо соответствующая информация.
- **Дополнительные экологические указания:**
- **Общие указания:**  
Класс вредности для воды 3 (Списочная классификация): очень вредно для воды

(Продолжение на странице 7)

# Паспорт безопасности

## в соответствии с ГОСТ 30333-2007

Дата печати: 26.04.2022

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**Торговое наименование: ETHYLENE DICHLORIDE**

(Продолжение страницы 6)

Не допускать попадания продукта в грунтовые воды, водоёмы или в канализационную систему, даже в малых количествах.

Вред для питьевой воды при попадании под землю даже минимальных количеств.

· **Результаты оценки PBT (устойчивое биоаккумулятивное токсическое вещество) и vPvB (очень устойчивое биоаккумулятивное вещество)**

· **PBT:** Неприменимо.

· **vPvB:** Неприменимо.

· **Другие вредные эффекты** Отсутствует какая-либо соответствующая информация.

### 13 Рекомендации по удалению отходов (остатков)

· **Методы обработки отходов**

· **Рекомендация:**

Утилизация совместно с бытовыми отходами недопустима. Не допускать попадания в канализацию.

· **Неочищенные упаковки:**

· **Рекомендация:**

Утилизация должна быть осуществлена в соответствии с предписаниями компетентных служб.

· **Рекомендуемые чистящие средства:** Вода - если необходимо, с добавлением чистящих средств.

### 14 Информация при перевозках (транспортировании)

· **Номер UN**

· **ADR, IMDG, IATA**

UN1184

· **Собственное транспортное наименование ООН**

· **ADR**

1184 ЭТИЛЕНДИХЛОРИД

· **IMDG**

ETHYLENE DICHLORIDE, MARINE POLLUTANT

· **IATA**

ETHYLENE DICHLORIDE

· **классов опасности транспорта**

· **ADR**



· **Класс**

3 Легковоспламеняющиеся жидкости

· **Этикетка для опасного содержимого**

3+6.1

· **IMDG**



· **Class**

3 Легковоспламеняющиеся жидкости

· **Label**

3/6.1

(Продолжение на странице 8)

**Паспорт безопасности**  
в соответствии с ГОСТ 30333-2007

Дата печати: 26.04.2022

Дата редактирования: 26.04.2022

**Торговое наименование: ETHYLENE DICHLORIDE**

(Продолжение страницы 7)

· IATA



· Class 3 Легковоспламеняющиеся жидкости  
· Label 3 (6.1)

· Группа упаковки II  
· ADR, IMDG, IATA

· Экологические риски:  
· Загрязнитель морской среды: Символ (рыба и дерево)

· Особые меры предосторожности для пользователей Осторожно: Легковоспламеняющиеся жидкости  
· Идентификационный номер опасности (Код опасности по Кемлеру): 336  
· Номер EMS: F-E, S-  
· Segregation groups Liquid halogenated hydrocarbons  
· Stowage Category B  
· Stowage Code SW2 Clear of living quarters.

· Транспортировка навалом в соответствии с Приложением II MARPOL73/78 (Международная конвенция по предотвращению загрязнения вод с судов) и IBC Code (Международный кодекс перевозок опасных химических грузов наливом) Неприменимо.

· Транспорт / дополнительная информация:

· ADR 1L  
· Ограниченные объёмы (LQ) Код: E2  
· Освобожденные количества (EQ) Максимальное количество нетто на внутреннюю тару: 30 мл  
Максимальное количество нетто на наружную тару: 500 мл  
· Транспортная категори 2  
· Код ограничения проезда через туннели D/E

· IMDG 1L  
· Limited quantities (LQ) Code: E2  
· Excepted quantities (EQ) Maximum net quantity per inner packaging: 30 мл  
Maximum net quantity per outer packaging: 500 мл

· UN "Model Regulation": UN 1184 ЭТИЛЕНДИХЛОРИД, 3 (6.1), II

### 15 Информация о национальном и международном законодательстве

· Нормы безопасности, правила охраны труда и экологические нормативы или стандарты, действующие для вещества или смеси  
· Реестр евразийской промышленной продукции Данное вещество указано в списке.

(Продолжение на странице 9)



# Паспорт безопасности в соответствии с ГОСТ 30333-2007

Дата печати: 26.04.2022

Дата редактирования: 26.04.2022

**Торговое наименование: ETHYLENE DICHLORIDE**

(Продолжение страницы 8)

· **Элементы маркировки в соответствии с СГС**

Данное вещество классифицируется и маркируется в соответствии с Согласованной на глобальном уровне системой классификации и маркировки химических веществ (GHS).

· **Пиктограммы, обозначающие опасности**



GHS02 GHS07 GHS08

· **Сигнальное слово** Опасно

· **Предупреждения об опасности**

Легко воспламеняющаяся жидкость и пар.

Вредно при проглатывании.

Может нанести вред при контакте с кожей.

Вызывает раздражение кожи.

Вызывает серьезное раздражение глаз.

Может вызывать рак.

Может вызывать раздражение дыхательных путей.

· **Меры предосторожности**

Береечь от тепла/искр/открытого огня/горячих поверхностей. – Не курить.

Использовать взрывобезопасное электрическое / вентиляционное / осветительное оборудование.

**ПРИ ПОПАДАНИИ НА КОЖУ (или волосы):** Немедленно снять всю загрязненную одежду. Промыть кожу водой/под душем.

**ПРИ ПОПАДАНИИ В ГЛАЗА:** Осторожно промыть глаза водой в течение нескольких минут. Снять контактные линзы, если вы пользуетесь ими и если это легко сделать. Продолжить промывание глаз.

Хранить под замком.

Утилизировать содержимое / тару в соответствии с местными / региональными / национальными / международными предписаниями.

· **Национальные предписания:**

· **Указания по ограничению использования:**

Сотрудников нельзя подвергать воздействию данного опасного вещества. В отдельных случаях компетентные службы могут допустить исключения.

· **Оценка химической безопасности:** Оценка химической безопасности не проведена.

## 16 Дополнительная информация

Данные опираются на актуальные знания, однако они не являются гарантией каких-либо конкретных свойств продукта и не устанавливают никаких действующих с юридической точки зрения договорных отношений.

· **Контактная информация:**

· **Аббревиатуры и акронимы:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Воспламеняющаяся жидкость 2: Flammable liquids – Category 2

Острая токсичность 4: Acute toxicity – Category 4

Острая токсичность 5: Acute toxicity – Category 5

(Продолжение на странице 10)

**Паспорт безопасности**  
**в соответствии с ГОСТ 30333-2007**

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*Раздражение кожи 2: Skin corrosion/irritation – Category 2*  
*Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A*  
*Канцерогенность 1B: Carcinogenicity – Category 1B*  
*СТОМ - однократно 3: Specific target organ toxicity (single exposure) – Category 3*

(Продолжение страницы 9)

RU



# Ficha de datos de seguridad

## según 1907/2006/CE, Artículo 31

fecha de impresión 26.04.2022

Revisión: 26.04.2022

### SECCIÓN 1: Identificación de la sustancia o la mezcla y de la sociedad o la empresa

#### · 1.1 Identificador del producto

· **Nombre comercial:** 1,2-dicloroetano

· **Número del artículo:** 13250, 13251

· **Número CAS:**

107-06-2

· **Número CE:**

203-458-1

· **Número de clasificación:**

602-012-00-7

· **1.2 Usos pertinentes identificados de la sustancia o de la mezcla y usos desaconsejados**

No existen más datos relevantes disponibles.

· **Utilización del producto / de la elaboración** Sustancias químicas de laboratorio

· **1.3 Datos del proveedor de la ficha de datos de seguridad**

· **Fabricante/distribuidor:**

Electron Microscopy Sciences

1560 Industry Road

USA-Hatfield, PA 19440

Tel: 215-412-8400 Fax: 215-412-8450

email: info@emsdiasum.com

www.emsdiasum.com

Aname

C/ Perez Galdos no. 2

28693 Quijorna

Madrid, Spain

Tel: +34.91.816.89.50

Fax: +34.91.816.85.94

email: ventas@aname.es

· **Área de información:** Product safety department

· **1.4 Teléfono de emergencia:**

ChemTrec 1-800-424-9300 Contract CCN7661

1-703-527-3887

### SECCIÓN 2: Identificación de los peligros

· **2.1 Clasificación de la sustancia o de la mezcla**

· **Clasificación con arreglo al Reglamento (CE) n° 1272/2008**



GHS02 llama

Flam. Liq. 2 H225 Líquido y vapores muy inflamables.



GHS08 peligro para la salud

Carc. 1B H350 Puede provocar cáncer.



GHS07

Acute Tox. 4 H302 Nocivo en caso de ingestión.

( se continua en página 2 )

# Ficha de datos de seguridad

## según 1907/2006/CE, Artículo 31

fecha de impresión 26.04.2022

Revisión: 26.04.2022

Nombre comercial: 1,2-dicloroetano

( se continua en página 1 )

Skin Irrit. 2 H315 Provoca irritación cutánea.  
 Eye Irrit. 2 H319 Provoca irritación ocular grave.  
 STOT SE 3 H335 Puede irritar las vías respiratorias.

### · 2.2 Elementos de la etiqueta

#### · Etiquetado con arreglo al Reglamento (CE) n° 1272/2008

La sustancia se ha clasificado y etiquetado de conformidad con el reglamento CLP.

#### · Pictogramas de peligro



GHS02 GHS07 GHS08

#### · Palabra de advertencia Peligro

#### · Indicaciones de peligro

H225 Líquido y vapores muy inflamables.  
 H302 Nocivo en caso de ingestión.  
 H315 Provoca irritación cutánea.  
 H319 Provoca irritación ocular grave.  
 H350 Puede provocar cáncer.  
 H335 Puede irritar las vías respiratorias.

#### · Consejos de prudencia

P210 Mantener alejado del calor, de superficies calientes, de chispas, de llamas abiertas y de cualquier otra fuente de ignición. No fumar.  
 P241 Utilizar material [eléctrico/ de ventilación/iluminación] antideflagrante.  
 P303+P361+P353 EN CASO DE CONTACTO CON LA PIEL (o el pelo): Quitar inmediatamente toda la ropa contaminada. Enjuagar la piel con agua [o ducharse].  
 P305+P351+P338 EN CASO DE CONTACTO CON LOS OJOS: Enjuagar con agua cuidadosamente durante varios minutos. Quitar las lentes de contacto cuando estén presentes y pueda hacerse con facilidad. Proseguir con el lavado.  
 P405 Guardar bajo llave.  
 P501 Eliminar el contenido o el recipiente conforme a la reglamentación local/regional/nacional/internacional.

### · 2.3 Otros peligros

#### · Resultados de la valoración PBT y mPmB

· **PBT:** No aplicable.  
 · **mPmB:** No aplicable.

## SECCIÓN 3: Composición/información sobre los componentes

### · 3.1 Caracterización química: Sustancias

#### · Denominación N° CAS

107-06-2 1,2-dicloroetano

#### · Número(s) de identificación

· Número CE: 203-458-1

· Número de clasificación: 602-012-00-7

#### · SVHC

107-06-2	1,2-dicloroetano
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ES

( se continua en página 3 )

# Ficha de datos de seguridad

## según 1907/2006/CE, Artículo 31

fecha de impresión 26.04.2022

Revisión: 26.04.2022

Nombre comercial: 1,2-dicloroetano

( se continua en página 2 )

### SECCIÓN 4: Primeros auxilios

#### · 4.1 Descripción de los primeros auxilios

##### · Instrucciones generales:

Los síntomas de intoxicación pueden presentarse después de muchas horas, por lo que se requiere una supervisión médica durante un mínimo de 48 horas después del accidente.

##### · En caso de inhalación del producto:

Las personas desmayadas deben tenderse y transportarse de lado con la suficiente estabilidad.

##### · En caso de contacto con la piel: Lavar inmediatamente con agua y jabón y enjuagar bien.

##### · En caso de con los ojos:

Limpiar los ojos abiertos durante varios minutos con agua corriente. En caso de trastornos persistentes consultar un médico.

##### · En caso de ingestión: Consultar inmediatamente un médico.

#### · 4.2 Principales síntomas y efectos, agudos y retardados No existen más datos relevantes disponibles.

#### · 4.3 Indicación de toda atención médica y de los tratamientos especiales que deban dispensarse inmediatamente No existen más datos relevantes disponibles.

### SECCIÓN 5: Medidas de lucha contra incendios

#### · 5.1 Medios de extinción

##### · Sustancias extintoras apropiadas:

CO<sub>2</sub>, polvo extintor o chorro de agua rociada. Combatir incendios mayores con chorro de agua rociada o espuma resistente al alcohol.

#### · 5.2 Peligros específicos derivados de la sustancia o la mezcla No existen más datos relevantes disponibles.

#### · 5.3 Recomendaciones para el personal de lucha contra incendios

##### · Equipo especial de protección: No se requieren medidas especiales.

### SECCIÓN 6: Medidas en caso de vertido accidental

#### · 6.1 Precauciones personales, equipo de protección y procedimientos de emergencia

Llevar puesto equipo de protección. Mantener alejadas las personas sin protección.

#### · 6.2 Precauciones relativas al medio ambiente:

Diluir con mucha agua.

Evitar que penetre en la canalización /aguas de superficie /agua subterráneas.

#### · 6.3 Métodos y material de contención y de limpieza:

Quitar con material absorbente (arena, kieselgur, aglutinante de ácidos, aglutinante universal, aserrín).

Desechar el material contaminado como vertido según ítem 13.

Asegurar suficiente ventilación.

#### · 6.4 Referencia a otras secciones

Ver capítulo 7 para mayor información sobre una manipulación segura.

Ver capítulo 8 para mayor información sobre el equipo personal de protección.

Para mayor información sobre cómo desechar el producto, ver capítulo 13.

### SECCIÓN 7: Manipulación y almacenamiento

#### · 7.1 Precauciones para una manipulación segura Abrir y manejar el recipiente con cuidado.

##### · Prevención de incendios y explosiones:

Mantener alejadas las fuentes de encendido. No fumar.

Tomar medidas contra las cargas electrostáticas.

Tener preparados los aparatos respiratorios.

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- **7.2 Condiciones de almacenamiento seguro, incluidas posibles incompatibilidades**
- **Almacenamiento:**
- **Exigencias con respecto al almacén y los recipientes:** Almacenar en un lugar fresco.
- **Normas en caso de un almacenamiento conjunto:** No es necesario.
- **Indicaciones adicionales sobre las condiciones de almacenamiento:**  
Mantener el recipiente cerrado herméticamente.  
Almacenarlo en envases bien cerrados en un lugar fresco y seco.
- **7.3 Usos específicos finales** No existen más datos relevantes disponibles.

### SECCIÓN 8: Controles de exposición/protección individual

- **8.1 Parámetros de control**
- **Instrucciones adicionales para el acondicionamiento de instalaciones técnicas:**  
Sin datos adicionales, ver punto 7.

- **Componentes con valores límite admisibles que deben controlarse en el puesto de trabajo:**

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LEP	Valor de larga duración: 8,2 mg/m <sup>3</sup> , 2 ppm CIB, r, vía dérmica, v
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- **Indicaciones adicionales:** Como base se han utilizado las listas vigentes en el momento de la elaboración.

- **8.2 Controles de la exposición**

- **Equipo de protección individual:**

- **Medidas generales de protección e higiene:**

Mantener alejado de alimentos, bebidas y alimentos para animales.  
Quitarse de inmediato la ropa ensuciada o impregnada.  
Lavarse las manos antes de las pausas y al final del trabajo.  
Guardar la ropa protectora por separado.  
Evitar el contacto con los ojos y la piel.

- **Protección respiratoria:**

Si la exposición va a ser breve o de poca intensidad, colocarse una máscara respiratoria. Para una exposición más intensa o de mayor duración, usar un aparato de respiración autónomo.

- **Protección de manos:**



Guantes de protección

El material del guante deberá ser impermeable y resistente al producto / sustancia / preparado.

Ante la ausencia de tests específicos, no se puede recomendar ningún material específico para guantes de protección contra el producto / preparado / mezcla de sustancias químicas.

Selección del material de los guantes en función de los tiempos de rotura, grado de permeabilidad y degradación.

- **Material de los guantes**

La elección del guante adecuado no depende únicamente del material, sino también de otras características de calidad, que pueden variar de un fabricante a otro.

- **Tiempo de penetración del material de los guantes**

El tiempo de resistencia a la penetración exacto deberá ser pedido al fabricante de los guantes. Este tiempo debe ser respetado.

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· **Protección de ojos:**

Gafas de protección herméticas

### SECCIÓN 9: Propiedades físicas y químicas

· **9.1 Información sobre propiedades físicas y químicas básicas**· **Datos generales**· **Aspecto:**

Forma: Aceitoso

Color: Incoloro

· **Olor:** Agradable· **Umbral olfativo:** No determinado.· **valor pH:** No determinado.· **Cambio de estado**

Punto de fusión/punto de congelación: -35,5 °C

Punto inicial de ebullición e intervalo de ebullición: 83,5 °C

· **Punto de inflamación:** 13 °C· **Inflamabilidad (sólido, gas):** No aplicable.· **Temperatura de ignición:** 413-440 °C· **Temperatura de descomposición:** No determinado.· **Temperatura de auto-inflamación:** No determinado.· **Propiedades explosivas:** El producto no es explosivo; sin embargo, pueden formarse mezclas explosivas de vapor / aire.· **Límites de explosión:**

Inferior: 6,2 Vol %

Superior: 15,9 Vol %

· **Presión de vapor a 20 °C:** 87 hPa· **Densidad a 20 °C:** 1,24 g/cm<sup>3</sup>· **Densidad relativa** No determinado.· **Densidad de vapor** No determinado.· **Tasa de evaporación:** No determinado.· **Solubilidad en / miscibilidad con agua a 20 °C:**

8 g/l

· **Coefficiente de reparto: n-octanol/agua:** No determinado.· **Viscosidad:**

Dinámica a 20 °C: 0,8 mPas

Cinemática: No determinado.

· **9.2 Otros datos**

No existen más datos relevantes disponibles.

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### SECCIÓN 10: Estabilidad y reactividad

- **10.1 Reactividad** No existen más datos relevantes disponibles.
- **10.2 Estabilidad química**
- **Descomposición térmica / condiciones que deben evitarse:** No se descompone al emplearse adecuadamente.
- **10.3 Posibilidad de reacciones peligrosas** No se conocen reacciones peligrosas.
- **10.4 Condiciones que deben evitarse** No existen más datos relevantes disponibles.
- **10.5 Materiales incompatibles:** No existen más datos relevantes disponibles.
- **10.6 Productos de descomposición peligrosos:** No se conocen productos de descomposición peligrosos.

### SECCIÓN 11: Información toxicológica

- **11.1 Información sobre los efectos toxicológicos**
- **Toxicidad aguda**  
Nocivo en caso de ingestión.

· **Valores LD/LC50 (dosis letal /dosis letal = 50%) relevantes para la clasificación:**

Oral	LD50	670 mg/kg (rat)
Dermal	LD50	2.800 mg/kg (rat)

- **Efecto estimulante primario:**
- **Corrosión o irritación cutáneas**  
Provoca irritación cutánea.
- **Lesiones o irritación ocular graves**  
Provoca irritación ocular grave.
- **Sensibilización respiratoria o cutánea**  
A la vista de los datos disponibles, no se cumplen los criterios de clasificación.
- **Indicaciones toxicológicas adicionales:**
- **Efectos CMR (carcinogenicidad, mutagenicidad y toxicidad para la reproducción)**
- **Mutagenicidad en células germinales**  
A la vista de los datos disponibles, no se cumplen los criterios de clasificación.
- **Carcinogenicidad**  
Puede provocar cáncer.
- **Toxicidad para la reproducción** A la vista de los datos disponibles, no se cumplen los criterios de clasificación.
- **Toxicidad específica en determinados órganos (STOT) – exposición única**  
Puede irritar las vías respiratorias.
- **Toxicidad específica en determinados órganos (STOT) – exposición repetida**  
A la vista de los datos disponibles, no se cumplen los criterios de clasificación.
- **Peligro de aspiración** A la vista de los datos disponibles, no se cumplen los criterios de clasificación.

### SECCIÓN 12: Información ecológica

- **12.1 Toxicidad**
- **Toxicidad acuática:** No existen más datos relevantes disponibles.
- **12.2 Persistencia y degradabilidad** No existen más datos relevantes disponibles.
- **12.3 Potencial de bioacumulación** No existen más datos relevantes disponibles.
- **12.4 Movilidad en el suelo** No existen más datos relevantes disponibles.
- **Indicaciones medioambientales adicionales:**
- **Indicaciones generales:**  
Nivel de riesgo para el agua 3 (clasificación de listas): muy peligroso para el agua  
No dejar que se infiltre en aguas subterráneas, aguas superficiales o en alcantarillados, ni siquiera en pequeñas cantidades.  
Una cantidad ínfima vertida en el subsuelo ya representa un peligro para el agua potable.

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- **12.5 Resultados de la valoración PBT y mPmB**
- **PBT:** No aplicable.
- **mPmB:** No aplicable.
- **12.6 Otros efectos adversos** No existen más datos relevantes disponibles.

## SECCIÓN 13: Consideraciones relativas a la eliminación

- **13.1 Métodos para el tratamiento de residuos**
- **Recomendación:** No debe desecharse con la basura doméstica. No debe llegar al alcantarillado.
- **Embalajes sin limpiar:**
- **Recomendación:** Eliminar conforme a las disposiciones oficiales.
- **Producto de limpieza recomendado:** Agua, eventualmente añadiendo productos de limpieza.

## SECCIÓN 14: Información relativa al transporte

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>· <b>14.1 Número ONU</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>   | <p style="text-align: center;">UN1184</p>   |
| <ul style="list-style-type: none"> <li>· <b>14.2 Designación oficial de transporte de las Naciones Unidas</b></li> <li>· <b>ADR</b></li> <li>· <b>IMDG</b></li> <li>· <b>IATA</b></li> </ul> | <p style="text-align: center;">1184 DICLORURO DE ETILENO<br/>ETHYLENE DICHLORIDE, MARINE POLLUTANT<br/>ETHYLENE DICHLORIDE</p>  |
| <ul style="list-style-type: none"> <li>· <b>14.3 Clase(s) de peligro para el transporte</b></li> <li>· <b>ADR</b></li> </ul>   | <div style="display: flex; align-items: center; gap: 20px;">   </div> <p style="margin-top: 10px;">· <b>Clase</b> <span style="float: right;">3 Líquidos inflamables</span><br/>· <b>Etiqueta</b> <span style="float: right;">3+6.1</span></p>  |
| <ul style="list-style-type: none"> <li>· <b>IMDG</b></li> </ul>  | <div style="display: flex; align-items: center; gap: 20px;">    </div> <p style="margin-top: 10px;">· <b>Class</b> <span style="float: right;">3 Líquidos inflamables</span><br/>· <b>Label</b> <span style="float: right;">3/6.1</span></p> |
| <ul style="list-style-type: none"> <li>· <b>IATA</b></li> </ul>  | <div style="display: flex; align-items: center; gap: 20px;">   </div> <p style="margin-top: 10px;">· <b>Class</b> <span style="float: right;">3 Líquidos inflamables</span><br/>· <b>Label</b> <span style="float: right;">3 (6.1)</span></p>   |
| <ul style="list-style-type: none"> <li>· <b>14.4 Grupo de embalaje</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>  | <p style="text-align: center;">II</p>   |

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· 14.5 Peligros para el medio ambiente:	
· Contaminante marino:	Símbolo (pez y árbol)
· 14.6 Precauciones particulares para los usuarios	Atención: Líquidos inflamables
· Número de identificación de peligro (Número Kemler):	336
· Número EMS:	F-E, S-
· Segregation groups	Liquid halogenated hydrocarbons
· Stowage Category	B
· Stowage Code	SW2 Clear of living quarters.
· 14.7 Transporte a granel con arreglo al anexo II del Convenio MARPOL y el Código IBC	No aplicable.
· Transporte/datos adicionales:	
· ADR	
· Cantidades limitadas (LQ)	1L
· Cantidades exceptuadas (EQ)	Código: E2 Cantidad neta máxima por envase interior: 30 ml Cantidad neta máxima por embalaje exterior: 500 ml
· Categoría de transporte	2
· Código de restricción del túnel	D/E
· IMDG	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· "Reglamentación Modelo" de la UNECE:	UN 1184 DICLORURO DE ETILENO, 3 (6.1), II

### SECCIÓN 15: Información reglamentaria

- 15.1 Reglamentación y legislación en materia de seguridad, salud y medio ambiente específicas para la sustancia o la mezcla
- Directiva 2012/18/UE
- Sustancias peligrosas nominadas - ANEXO I No contiene la sustancia.
- Categoría Seveso P5c LÍQUIDOS INFLAMABLES
- Cantidad umbral (toneladas) a efectos de aplicación de los requisitos de nivel inferior 5.000 t
- Cantidad umbral (toneladas) a efectos de aplicación de los requisitos de nivel superior 50.000 t
- LISTA DE SUSTANCIAS SUJETAS A AUTORIZACIÓN (ANEXO XIV) Sunset date: 2017-11-22
- REGLAMENTO (CE) n° 1907/2006 ANEXO XVII Restricciones: 3, 28, 40
- Reglamento (UE) No 649/2012  
Annex I Part 1  
Annex I Part 3
- Directiva 2011/65/UE sobre restricciones a la utilización de determinadas sustancias peligrosas en aparatos eléctricos y electrónicos - Anexo II  
No contiene la sustancia.
- REGLAMENTO (UE) 2019/1148
- Anexo I - PRECURSORES DE EXPLOSIVOS RESTRINGIDOS (Valor límite superior a efectos de la concesión de licencias con arreglo al artículo 5, apartado 3)  
No contiene la sustancia.
- Anexo II - PRECURSORES DE EXPLOSIVOS NOTIFICABLES No contiene la sustancia.

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- **Reglamento (CE) no 273/2004 sobre precursores de drogas** No contiene la sustancia.
- **Reglamento (CE) N o 111/2005 por el que establecen normas para la vigilancia del comercio de precursores de drogas entre la Comunidad y terceros países**  
No contiene la sustancia.
- **Disposiciones nacionales:**
- **Indicaciones sobre las limitaciones de trabajo:**  
Los empleados no deben exponerse a esta sustancia peligrosa. En casos aislados las autoridades pueden hacer excepciones.
- **Demás disposiciones, limitaciones y decretos prohibitivos**

· **Sustancias altamente preocupantes (SVHC) según REACH, artículo 57**

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- **15.2 Evaluación de la seguridad química:** Una evaluación de la seguridad química no se ha llevado a cabo.

### SECCIÓN 16: Otra información

Los datos se fundan en el estado actual de nuestros conocimientos, pero no constituyen garantía alguna de cualidades del producto y no generan ninguna relación jurídica contractual.

- **Abreviaturas y acrónimos:**  
 ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)  
 IMDG: International Maritime Code for Dangerous Goods  
 IATA: International Air Transport Association  
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 PBT: Persistent, Bioaccumulative and Toxic  
 SVHC: Substances of Very High Concern  
 vPvB: very Persistent and very Bioaccumulative  
 Flam. Liq. 2: Líquidos inflamables – Categoría 2  
 Acute Tox. 4: Toxicidad aguda – Categoría 4  
 Skin Irrit. 2: Corrosión o irritación cutáneas – Categoría 2  
 Eye Irrit. 2: Lesiones oculares graves o irritación ocular – Categoría 2  
 Carc. 1B: Carcinogenicidad – Categoría 1B  
 STOT SE 3: Toxicidad específica en determinados órganos ( exposición única) – Categoría 3