

Safety Data Sheet

acc. to OSHA HCS

Printing date 08/02/2022

Reviewed on 08/02/2022

1 Identification

- **Product identifier**
- **Trade name:** Cacodylic Acid, Free Acid, Reagent, ACS
- **Article number:** 12200, 12201, 12201-1KG, 12201-SP
- **CAS Number:**
75-60-5
- **EC number:**
200-883-4
- **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**



GHS06 Skull and crossbones

Acute Toxicity - Oral 2 H300 Fatal if swallowed.

Acute Toxicity - Dermal 2 H310 Fatal in contact with skin.

Acute Toxicity - Inhalation 2 H330 Fatal if inhaled.



GHS08 Health hazard

Carcinogenicity 2 H351 Suspected of causing cancer.

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



GHS06 GHS08

- **Signal word** *Danger*
- **Hazard statements**
Fatal if swallowed, in contact with skin or if inhaled.
Suspected of causing cancer.
- **Precautionary statements**
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.

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Trade name: Cacodylic Acid, Free Acid, Reagent, ACS

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Do not breathe dust/fume/gas/mist/vapors/spray.
 Do not get in eyes, on skin, or on clothing.
 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.
 [In case of inadequate ventilation] wear respiratory protection.
 If swallowed: Immediately call a poison center/doctor.
 Rinse mouth.
 If on skin: Wash with plenty of water.
 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 IF exposed or concerned: Get medical advice/attention.
 Specific treatment is urgent (see on this label).
 Take off immediately all contaminated clothing and wash it before reuse.
 Store in a well-ventilated place. Keep container tightly closed.
 Store locked up.
 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



· **HMIS-ratings (scale 0 - 4)**



· **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**

75-60-5 Cacodylic Acid, Free Acid, Reagent, ACS

· **Identification number(s)**

· **EC number:** 200-883-4

4 First-aid measures

· **Description of first aid measures**

· **General information:**

Immediately remove any clothing soiled by the product.

Remove breathing apparatus only after contaminated clothing have been completely removed.

In case of irregular breathing or respiratory arrest provide artificial respiration.

· **After inhalation:**

Supply fresh air or oxygen; call for doctor.

In case of unconsciousness place patient stably in side position for transportation.

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- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** Do not induce vomiting; immediately call for medical help.
- **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:** Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
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:** 2.8 mg/m³
- **PAC-2:** 25 mg/m³
- **PAC-3:** 140 mg/m³

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
- **Information about protection against explosions and fires:** Keep respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **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.

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- **Control parameters**
- **Components with limit values that require monitoring at the workplace:** Not required.
- **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.

- **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:** Not required.

9 Physical and chemical properties

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

- **General Information**

- **Appearance:**

Form:	Crystalline
Color:	White
Odor:	Weak, characteristic
Odor threshold:	Not determined.

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

- **Change in condition**

Melting point/Melting range:	192-198 °C (377.6-388.4 °F)
Boiling point/Boiling range:	250 °C (482 °F)

- **Flash point:** Not applicable.

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

- **Decomposition temperature:** Not determined.

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· Auto igniting:	Not determined.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapor pressure:	Not determined.
· Density:	Not determined.
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with Water:	Not determined.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Other information	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:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:** Danger through skin absorption.
- **Carcinogenic categories**
- **IARC (International Agency for Research on Cancer) 2B**
- **NTP (National Toxicology Program) Substance is not listed.**
- **OSHA-Ca (Occupational Safety Health Administration) Substance is not listed.**

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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.

14 Transport information

- | | |
|-------------------------------------|---|
| · UN-Number | |
| · DOT, ADR, IMDG, IATA | UN1572 |
| · UN proper shipping name | |
| · DOT | Cacodylic acid |
| · ADR | 1572 CACODYLIC ACID |
| · IMDG, IATA | CACODYLIC ACID |
| · Transport hazard class(es) | |
| · DOT | |
| |  |
| · Class | 6.1 Toxic substances |
| · Label | 6.1 |

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· ADR, IMDG, IATA



· **Class** 6.1 Toxic substances
 · **Label** 6.1

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

· **Environmental hazards:** Not applicable.

· **Special precautions for user** Warning: Toxic substances
 · **Hazard identification number (Kemler code):** 60
 · **EMS Number:** 6.1-04
 · **Segregation groups** (SGG1) Acids
 · **Stowage Category** E
 · **Segregation Code** SG35 Stow "separated from" SGG1-acids
 SG36 Stow "separated from" SGG18-alkalis.
 SG49 Stow "separated from" SGG6-cyanides

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

· **Transport/Additional information:**

· **DOT**
 · **Quantity limitations** On passenger aircraft/rail: 25 kg
 On cargo aircraft only: 100 kg
 · **Hazardous substance:** 1 lbs, 0.454 kg

· **ADR**
 · **Excepted quantities (EQ)** Code: E4
 Maximum net quantity per inner packaging: 1 ml
 Maximum net quantity per outer packaging: 500 ml

· **IMDG**
 · **Limited quantities (LQ)** 500 g
 · **Excepted quantities (EQ)** Code: E4
 Maximum net quantity per inner packaging: 1 ml
 Maximum net quantity per outer packaging: 500 ml

· **UN "Model Regulation":** UN 1572 CACODYLIC ACID, 6.1, II

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
 No further relevant information available.
- **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 not listed.
- **Proposition 65**
- **Chemicals known to cause cancer:** Substance is listed.

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- **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) D**
- **TLV (Threshold Limit Value)** Substance is not listed.
- **NIOSH-Ca (National Institute for Occupational Safety and Health)** Substance is not listed.
- **GHS label elements** The substance is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS06 GHS08

- **Signal word** *Danger*
- **Hazard statements**
 - Fatal if swallowed, in contact with skin or if inhaled.*
 - Suspected of causing cancer.*
- **Precautionary statements**
 - Obtain special instructions before use.*
 - Do not handle until all safety precautions have been read and understood.*
 - Do not breathe dust/fume/gas/mist/vapors/spray.*
 - Do not get in eyes, on skin, or on clothing.*
 - 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.*
 - [In case of inadequate ventilation] wear respiratory protection.*
 - If swallowed: Immediately call a poison center/doctor.*
 - Rinse mouth.*
 - If on skin: Wash with plenty of water.*
 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.*
 - IF exposed or concerned: Get medical advice/attention.*
 - Specific treatment is urgent (see on this label).*
 - Take off immediately all contaminated clothing and wash it before reuse.*
 - Store in a well-ventilated place. Keep container tightly closed.*
 - Store locked up.*
 - Dispose of contents/container in accordance with local/regional/national/international regulations.*
- **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** 08/02/2022 / -
- **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*

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*CAS: Chemical Abstracts Service (division of the American Chemical Society)**NFPA: National Fire Protection Association (USA)**HMIS: Hazardous Materials Identification System (USA)**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******Acute Toxicity - Oral 2: Acute toxicity – Category 2******Carcinogenicity 2: Carcinogenicity – Category 2***

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according to WHS Regulations

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Revision: 02.08.2022

1 Identification

· **Product identifier**

· **Trade name:** Cacodylic Acid, Free Acid, Reagent, ACS

· **Article number:** 12200, 12201, 12201-1KG, 12201-SP

· **CAS Number:**

75-60-5

· **EC number:**

200-883-4

· **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

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

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

· **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**



GHS06 skull and crossbones

Acute Tox. 2 H300 Fatal if swallowed.

Acute Tox. 2 H310 Fatal in contact with skin.

Acute Tox. 2 H330 Fatal if inhaled.



GHS08 health hazard

Carc. 2 H351 Suspected of causing cancer.

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- **Label elements**

- **GHS label elements**

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

- **Hazard pictograms**



GHS06 GHS08

- **Signal word** *Danger*

- **Hazard statements**

Fatal if swallowed.

Fatal in contact with skin.

Fatal if inhaled.

Suspected of causing cancer.

- **Precautionary statements**

Obtain special instructions before use.

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

Do not breathe dust/fume/gas/mist/vapours/spray.

Do not get in eyes, on skin, or on clothing.

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.

Wear respiratory protection.

IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

Rinse mouth.

IF ON SKIN: Wash with plenty of water.

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

IF exposed or concerned: Get medical advice/attention.

Specific treatment is urgent (see on this label).

Take off immediately all contaminated clothing and wash it before reuse.

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

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**

75-60-5 Cacodylic Acid, Free Acid, Reagent, ACS

- **Identification number(s)**

- **EC number:** 200-883-4

AU

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Trade name: *Cacodylic Acid, Free Acid, Reagent, ACS*

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4 First Aid Measures

- **Description of first aid measures**
- **General information:**
Immediately remove any clothing soiled by the product.
Remove breathing equipment only after contaminated clothing have been completely removed.
In case of irregular breathing or respiratory arrest provide artificial respiration.
- **After inhalation:**
Supply fresh air or oxygen; call for doctor.
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. Then consult a doctor.
- **After swallowing:** Do not induce vomiting; call for medical help 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:** Use fire extinguishing methods suitable to surrounding conditions.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.

6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
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**
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
- **Information about fire - and explosion protection:** Keep respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.

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· *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:***75-60-5 Cacodylic Acid, Free Acid, Reagent, ACS**WES Long-term value: 0.05 mg/m³

Note (g); as As

· *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.*· *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: Not required.*

9 Physical and Chemical Properties

· *Information on basic physical and chemical properties*· *General Information*· *Appearance:**Form: Crystalline**Colour: White*· *Odour: Weak, characteristic*· *Odour threshold: Not determined.*

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· pH-value:	<i>Not determined.</i>
· Change in condition	
<i>Melting point/freezing point:</i>	<i>192-198 °C</i>
<i>Initial boiling point and boiling range:</i>	<i>250 °C</i>
· Flash point:	<i>Not applicable.</i>
· Flammability (solid, gas):	<i>Not applicable.</i>
· Decomposition temperature:	<i>Not determined.</i>
· Auto-ignition temperature:	<i>Not determined.</i>
· Explosive properties:	<i>Product does not present an explosion hazard.</i>
· Explosion limits:	
<i>Lower:</i>	<i>Not determined.</i>
<i>Upper:</i>	<i>Not determined.</i>
· Vapour pressure:	<i>Not determined.</i>
· Density:	<i>Not determined.</i>
· Relative density	<i>Not determined.</i>
· Vapour density	<i>Not determined.</i>
· Evaporation rate	<i>Not applicable.</i>
· Solubility in / Miscibility with water:	<i>Not determined.</i>
· Partition coefficient: n-octanol/water:	<i>Not determined.</i>
· Viscosity:	
<i>Dynamic:</i>	<i>Not determined.</i>
<i>Kinematic:</i>	<i>Not determined.</i>
· Other information	<i>No further relevant information available.</i>

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**
- **Primary irritant effect:**
- **Skin corrosion/irritation** *No irritant effect.*
- **Serious eye damage/irritation** *No irritating effect.*
- **Respiratory or skin sensitisation** *No sensitising effects known.*
- **Additional toxicological information:** *Danger through skin adsorption.*

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- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Carc. 2**


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
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.

14 Transport information

- | | |
|---|---|
| <ul style="list-style-type: none"> · UN-Number · ADG, IMDG, IATA | <p>UN1572</p> |
| <ul style="list-style-type: none"> · UN proper shipping name · ADG · IMDG, IATA | <p>1572 CACODYLIC ACID
CACODYLIC ACID</p> |
| <ul style="list-style-type: none"> · Transport hazard class(es) · ADG, IMDG, IATA | <p>6.1 Toxic substances.</p> |
| <div style="text-align: center;">  </div> <ul style="list-style-type: none"> · Class · Label | <p>6.1
6.1</p> |
| <ul style="list-style-type: none"> · Packing group · ADG, IMDG, IATA | <p>II</p> |

(Contd. on page 7)

Safety Data Sheet

according to WHS Regulations

Printing date 02.08.2022

Revision: 02.08.2022

Trade name: *Cacodylic Acid, Free Acid, Reagent, ACS*

(Contd. of page 6)

· Environmental hazards:	<i>Not applicable.</i>
· Special precautions for user	<i>Warning: Toxic substances.</i>
· Hazard identification number (Kemler code):	<i>60</i>
· EMS Number:	<i>6.1-04</i>
· Segregation groups	<i>(SGG1) Acids</i>
· Stowage Category	<i>E</i>
· Segregation Code	<i>SG35 Stow "separated from" SGG1-acids SG36 Stow "separated from" SGG18-alkalis. SG49 Stow "separated from" SGG6-cyanides</i>
· Transport in bulk according to Annex II of Marpol and the IBC Code	<i>Not applicable.</i>
· Transport/Additional information:	

· ADG	
· Limited quantities (LQ)	<i>500 g</i>
· Excepted quantities (EQ)	<i>Code: E4 Maximum net quantity per inner packaging: 1 ml Maximum net quantity per outer packaging: 500 ml</i>
· Transport category	<i>2</i>
· Tunnel restriction code	<i>D/E</i>

· IMDG	
· Limited quantities (LQ)	<i>500 g</i>
· Excepted quantities (EQ)	<i>Code: E4 Maximum net quantity per inner packaging: 1 ml Maximum net quantity per outer packaging: 500 ml</i>
· UN "Model Regulation":	<i>UN 1572 CACODYLIC ACID, 6.1, II</i>

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Australian Inventory of Industrial Chemicals** Substance is not listed.
- **Standard for the Uniform Scheduling of Medicines and Poisons S6, S7**
- **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**



GHS06 GHS08

- **Signal word** *Danger*
- **Hazard statements**
*Fatal if swallowed.
Fatal in contact with skin.
Fatal if inhaled.
Suspected of causing cancer.*
- **Precautionary statements**
Obtain special instructions before use.

(Contd. on page 8)

AU

Safety Data Sheet according to WHS Regulations

Printing date 02.08.2022

Revision: 02.08.2022

Trade name: Cacodylic Acid, Free Acid, Reagent, ACS

(Contd. of page 7)

- Do not handle until all safety precautions have been read and understood.
 Do not breathe dust/fume/gas/mist/vapours/spray.
 Do not get in eyes, on skin, or on clothing.
 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.
 Wear respiratory protection.
IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
 Rinse mouth.
IF ON SKIN: Wash with plenty of water.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
IF exposed or concerned: Get medical advice/attention.
 Specific treatment is urgent (see on this label).
 Take off immediately all contaminated clothing and wash it before reuse.
 Store in a well-ventilated place. Keep container tightly closed.
 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 H1 ACUTE TOXIC**
 - **Qualifying quantity (tonnes) for the application of lower-tier requirements 5 t**
 - **Qualifying quantity (tonnes) for the application of upper-tier requirements 20 t**
 - **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:**
- **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)
 PBT: Persistent, Bioaccumulative and Toxic
 vPvB: very Persistent and very Bioaccumulative
 Acute Tox. 2: Acute toxicity – Category 2
 Carc. 2: Carcinogenicity – Category 2

Safety Data Sheet

according to HPR, Schedule 1

Printing date 08/02/2022

Reviewed on 08/02/2022

1 Identification

- **Product identifier**
- **Trade name:** Cacodylic Acid, Free Acid, Reagent, ACS
- **Article number:** 12200, 12201, 12201-1KG, 12201-SP
- **CAS Number:**
75-60-5
- **EC number:**
200-883-4
- **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**



GHS06 Skull and crossbones

Acute Toxicity (Oral) - Category 2 H300 Fatal if swallowed.

Acute Toxicity (Dermal) – Category 2 H310 Fatal in contact with skin.

Acute Toxicity (Inhalation) - Category 2 H330 Fatal if inhaled.



GHS08 Health hazard

Carcinogenicity – Category 2 H351 Suspected of causing cancer.

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



GHS06 GHS08

- **Signal word** *Danger*
- **Hazard statements**
Fatal if swallowed, in contact with skin or if inhaled.
Suspected of causing cancer.
- **Precautionary statements**
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.

(Contd. on page 2)

Safety Data Sheet

according to HPR, Schedule 1

Printing date 08/02/2022

Reviewed on 08/02/2022

Trade name: Cacodylic Acid, Free Acid, Reagent, ACS

(Contd. of page 1)

Do not breathe dust/fume/gas/mist/vapours/spray.
 Do not get in eyes, on skin, or on clothing.
 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.
 [In case of inadequate ventilation] wear respiratory protection.
 If swallowed: Immediately call a poison center/doctor.
 Rinse mouth.
 IF ON SKIN: Gently wash with plenty of soap and water.
 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 IF exposed or concerned: Get medical advice/attention.
 Specific treatment is urgent (see on this label).
 Take off immediately all contaminated clothing.
 Wash contaminated clothing before reuse.
 Store in a well-ventilated place. Keep container tightly closed.
 Store locked up.
 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



· **HMIS-ratings (scale 0 - 4)**



3 Composition/Information on ingredients

- **Chemical characterization: Substances**
- **CAS No. Description**
75-60-5 Cacodylic Acid, Free Acid, Reagent, ACS
- **Identification number(s)**
- **EC number:** 200-883-4

4 First-aid measures

- **Description of first aid measures**
- **General information:**
Immediately remove any clothing soiled by the product.
Remove breathing apparatus only after contaminated clothing have been completely removed.
In case of irregular breathing or respiratory arrest provide artificial respiration.
- **After inhalation:**
Supply fresh air or oxygen; call for doctor.
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. Then consult a doctor.
- **After swallowing:** Do not induce vomiting; immediately call for medical help.

(Contd. on page 3)

Safety Data Sheet

according to HPR, Schedule 1

Printing date 08/02/2022

Reviewed on 08/02/2022

Trade name: Cacodylic Acid, Free Acid, Reagent, ACS

(Contd. of page 2)

- **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:** Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
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**
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
- **Information about protection against explosions and fires:** Keep respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **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:** Not required.
- **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.

(Contd. on page 4)

CA

Safety Data Sheet

according to HPR, Schedule 1

Printing date 08/02/2022

Reviewed on 08/02/2022

Trade name: Cacodylic Acid, Free Acid, Reagent, ACS

(Contd. of page 3)

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: Not required.

9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

Form: Crystalline

Color: White

· Odor: Weak, characteristic

· Odor threshold: Not determined.

· pH-value: Not determined.

· Change in condition

Melting point/Melting range: 192-198 °C

Boiling point/Boiling range: 250 °C

· Flash point: Not applicable.

· Flammability (solid, gaseous): Not flammable.

· Decomposition temperature: Not determined.

· Auto igniting: Not determined.

· Danger of explosion: Product does not present an explosion hazard.

· Explosion limits:

Lower: Not determined.

Upper: Not determined.

· Vapor pressure: Not determined.

· Density: Not determined.

(Contd. on page 5)

Safety Data Sheet

according to HPR, Schedule 1

Printing date 08/02/2022

Reviewed on 08/02/2022

Trade name: Cacodylic Acid, Free Acid, Reagent, ACS

(Contd. of page 4)

· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with Water:	Not determined.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Other information	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:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:** Danger through skin absorption.
- **Carcinogenic categories**
- **IARC (International Agency for Research on Cancer) 2B**
- **NTP (National Toxicology Program) 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.

(Contd. on page 6)

CA

Safety Data Sheet

according to HPR, Schedule 1

Printing date 08/02/2022

Reviewed on 08/02/2022

Trade name: Cacodylic Acid, Free Acid, Reagent, ACS

(Contd. of page 5)

- **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.

14 Transport information

- **UN-Number**
- **DOT/TDG, ADR, IMDG, IATA** UN1572

- **UN proper shipping name**
- **DOT/TDG** Cacodylic acid
- **ADR** 1572 Cacodylic acid
- **IMDG, IATA** CACODYLIC ACID

- **Transport hazard class(es)**
- **DOT/TDG (Transport dangerous goods):**



- **Class** 6.1 Toxic substances
- **Label** 6.1

- **ADR, IMDG, IATA**



- **Class** 6.1 Toxic substances
- **Label** 6.1

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

- **Environmental hazards:** Not applicable.

- **Special precautions for user** Warning: Toxic substances
- **Hazard identification number (Kemler code):** 60
- **EMS Number:** 6.1-04
- **Segregation groups** (SGG1) Acids
- **Stowage Category** E

(Contd. on page 7)

CA

Safety Data Sheet

according to HPR, Schedule 1

Printing date 08/02/2022

Reviewed on 08/02/2022

Trade name: *Cacodylic Acid, Free Acid, Reagent, ACS*

(Contd. of page 6)

· Segregation Code	SG35 Stow "separated from" SGG1-acids SG36 Stow "separated from" SGG18-alkalis. SG49 Stow "separated from" SGG6-cyanides
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· DOT/TDG	
· Quantity limitations	On passenger aircraft/rail: 25 kg On cargo aircraft only: 100 kg
· Hazardous substance:	1 lbs, 0.454 kg
· ADR	
· Excepted quantities (EQ)	Code: E4 Maximum net quantity per inner packaging: 1 ml Maximum net quantity per outer packaging: 500 ml
· IMDG	
· Limited quantities (LQ)	500 g
· Excepted quantities (EQ)	Code: E4 Maximum net quantity per inner packaging: 1 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 1572 CACODYLIC ACID, 6.1, II

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
No further relevant information available.
- **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 not listed.
- **Canadian Non-Domestic Substances List (NDSL)** Substance is listed.
- **Canadian Ingredient Disclosure list (limit 0.1%)** Substance is not listed.
- **Canadian Ingredient Disclosure list (limit 1%)** Substance is not listed.
- **GHS label elements** The substance is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS06 GHS08

- **Signal word** *Danger*
- **Hazard statements**
Fatal if swallowed, in contact with skin or if inhaled.
Suspected of causing cancer.
- **Precautionary statements**
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.

(Contd. on page 8)

Safety Data Sheet

according to HPR, Schedule 1

Printing date 08/02/2022

Reviewed on 08/02/2022

Trade name: Cacodylic Acid, Free Acid, Reagent, ACS

(Contd. of page 7)

Do not breathe dust/fume/gas/mist/vapours/spray.

Do not get in eyes, on skin, or on clothing.

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.

[In case of inadequate ventilation] wear respiratory protection.

If swallowed: Immediately call a poison center/doctor.

Rinse mouth.

IF ON SKIN: Gently wash with plenty of soap and water.

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

IF exposed or concerned: Get medical advice/attention.

Specific treatment is urgent (see on this label).

Take off immediately all contaminated clothing.

Wash contaminated clothing before reuse.

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

Store locked up.

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

· 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 08/02/2022 / -

· 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)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

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

Printing date 02.08.2022

Revision: 02.08.2022

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

· **1.1 Product identifier**

· **Trade name:** Cacodylic Acid, Free Acid, Reagent, ACS

· **Article number:** 12200, 12201, 12201-1KG, 12201-SP

· **CAS Number:**

75-60-5

· **EC number:**

200-883-4

· **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**



skull and crossbones

Acute Tox. 2 H300 Fatal if swallowed.

Acute Tox. 1 H310 Fatal in contact with skin.

Acute Tox. 1 H330 Fatal if inhaled.



health hazard

Carc. 2 H351 Suspected of causing cancer.

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008**

The substance is classified and labelled according to the GB CLP regulation.

· **Hazard pictograms**



GHS06



GHS08

· **Signal word** Danger

· **Hazard statements**

H300+H310+H330 Fatal if swallowed, in contact with skin or if inhaled.

(Contd. on page 2)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 02.08.2022

Revision: 02.08.2022

Trade name: Cacodylic Acid, Free Acid, Reagent, ACS

(Contd. of page 1)

H351 Suspected of causing cancer.

· Precautionary statements

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P330 Rinse mouth.

P320 Specific treatment is urgent (see on this label).

P361+P364 Take off immediately all contaminated clothing and wash it before reuse.

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

75-60-5 Cacodylic Acid, Free Acid, Reagent, ACS

· Identification number(s)

· EC number: 200-883-4

SECTION 4: First aid measures

· 4.1 Description of first aid measures

· General information:

Immediately remove any clothing soiled by the product.

Remove breathing equipment only after contaminated clothing have been completely removed.

In case of irregular breathing or respiratory arrest provide artificial respiration.

· After inhalation:

Supply fresh air or oxygen; call for doctor.

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. Then consult a doctor.

· After swallowing: Do not induce vomiting; call for medical help 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: Use fire extinguishing methods suitable to surrounding conditions.

· 5.2 Special hazards arising from the substance or mixture No further relevant information available.

· 5.3 Advice for firefighters

· Protective equipment: Mouth respiratory protective device.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures Not required.

· 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.

(Contd. on page 3)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 02.08.2022

Revision: 02.08.2022

Trade name: Cacodylic Acid, Free Acid, Reagent, ACS

(Contd. of page 2)

- **6.3 Methods and material for containment and cleaning up:**
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**
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
- **Information about fire - and explosion protection:** Keep respiratory protective device available.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.
- **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.
- **Ingredients with limit values that require monitoring at the workplace:** Not required.
- **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.

(Contd. on page 4)

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

Printing date 02.08.2022

Revision: 02.08.2022

Trade name: *Cacodylic Acid, Free Acid, Reagent, ACS*

(Contd. of page 3)

- **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:** Not required.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Appearance:

· Form:	Crystalline
· Colour:	White
· Odour:	Weak, characteristic
· Odour threshold:	Not determined.

· **pH-value:** Not determined.

· Change in condition

· Melting point/freezing point:	192-198 °C
· Initial boiling point and boiling range:	250 °C

· **Flash point:** Not applicable.

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

· **Decomposition temperature:** Not determined.

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

· **Explosive properties:** Product does not present an explosion hazard.

· Explosion limits:

· Lower:	Not determined.
· Upper:	Not determined.

· **Vapour pressure:** Not determined.

· **Density:** Not determined.

· **Relative density** Not determined.

· **Vapour density** Not determined.

· **Evaporation rate** Not applicable.

· Solubility in / Miscibility with water:

Not determined.

· **Partition coefficient: n-octanol/water:** Not determined.

· Viscosity:

· Dynamic:	Not determined.
· Kinematic:	Not determined.

· **9.2 Other information** 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.

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- **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**
Fatal if swallowed, in contact with skin or if inhaled.
- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **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**
Suspected of causing cancer.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **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.

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SECTION 14: Transport information

· 14.1 UN-Number · ADR, IMDG, IATA	UN1572
· 14.2 UN proper shipping name · ADR · IMDG, IATA	1572 CACODYLIC ACID CACODYLIC ACID
· 14.3 Transport hazard class(es) · ADR, IMDG, IATA	
	
· Class · Label	6.1 Toxic substances. 6.1
· 14.4 Packing group · ADR, IMDG, IATA	II
· 14.5 Environmental hazards:	Not applicable.
· 14.6 Special precautions for user · Hazard identification number (Kemler code): · EMS Number: · Segregation groups · Stowage Category · Segregation Code	Warning: Toxic substances. 60 6.1-04 (SGG1) Acids E SG35 Stow "separated from" SGG1-acids SG36 Stow "separated from" SGG18-alkalis. SG49 Stow "separated from" SGG6-cyanides
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR · Limited quantities (LQ) · Excepted quantities (EQ)	500 g Code: E4 Maximum net quantity per inner packaging: 1 ml Maximum net quantity per outer packaging: 500 ml
· Transport category · Tunnel restriction code	2 D/E
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	500 g Code: E4 Maximum net quantity per inner packaging: 1 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 1572 CACODYLIC ACID, 6.1, II

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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 H1 ACUTE TOXIC**
- **Qualifying quantity (tonnes) for the application of lower-tier requirements 5 t**
- **Qualifying quantity (tonnes) for the application of upper-tier requirements 20 t**
- **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)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 2: Acute toxicity – Category 2

Acute Tox. 1: Acute toxicity – Category 1

Carc. 2: Carcinogenicity – Category 2

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ODDÍL 1: Identifikace látky/směsi a společnosti/podniku

- **1.1 Identifikátor výrobku**
- **Obchodní označení:** Cacodylic Acid, Free Acid, Reagent, ACS
- **Číslo výrobku:** 12200, 12201, 12201-1KG, 12201-SP
- **Číslo CAS:**
75-60-5
- **Číslo ES:**
200-883-4
- **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**



GHS06 lebka se zkříženými hnáty

Acute Tox. 2 H300 Při požití může způsobit smrt.

Acute Tox. 1 H310 Při styku s kůží může způsobit smrt.

Acute Tox. 1 H330 Při vdechování může způsobit smrt.



GHS08 nebezpečnost pro zdraví

Carc. 2 H351 Podezření na vyvolání rakoviny.

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



GHS06



GHS08

- **Signální slovo** Nebezpečí
- **Standardní věty o nebezpečnosti**
H300+H310+H330 Při požití, při styku s kůží nebo při vdechování může způsobit smrt.
H351 Podezření na vyvolání rakoviny.

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(pokračování strany 1)

- **Pokyny pro bezpečné zacházení**
- P301+P310 **PŘI POŽITÍ:** Okamžitě volejte TOXIKOLOGICKÉ INFORMAČNÍ STŘEDISKO/lékaře.
- P330 Vypláchněte ústa.
- P320 Je nutné odborné ošetření (viz na tomto štítku).
- P361+P364 Veškeré kontaminované části oděvu okamžitě svlékněte a před opětovným použitím vyperte.
- 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:**
75-60-5 Cacodylic Acid, Free Acid, Reagent, ACS
- **Identifikační číslo(čísla)**
- **Číslo ES:** 200-883-4

ODDÍL 4: Pokyny pro první pomoc

- **4.1 Popis první pomoci**
- **Všeobecné pokyny:**
Neprodleně odstranit části oděvu znečištěné produktem.
Ochranu dýchání odstranit teprve po odstranění znečištěných částí oděvu.
Při nepravidelném dechu nebo zástavě dechu provést umělé dýchání.
- **Při nadýchání:**
Přívod čerstvého vzduchu nebo kyslíku; vyhledat lékařskou pomoc.
Při bezvědomí uložit a přepravit ve stabilní poloze na boku.
- **Při styku s kůží:** Ihned omýt vodou a mýdlem a dobře opláchnout.
- **Při zasažení očí:** Otevřené oči po více minut oplachovat pod tekoucí vodou a poradit se s lékařem.
- **Při požití:** Nepřivodit zvracení, ihned zavolat lékařskou pomoc.
- **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:** Způsob hašení přizpůsobit podmínkám v okolí.
- **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:** Použít ochranný dýchací přístroj.

ODDÍL 6: Opatření v případě náhodného úniku

- **6.1 Opatření na ochranu osob, ochranné prostředky a nouzové postupy** Není nutné.
- **6.2 Opatření na ochranu životního prostředí:**
Nenechat proniknout do kanalizace/povrchových vod/podzemních vod.

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- **6.3 Metody a materiál pro omezení úniku a pro čištění:**
Kontaminovaný materiál odstranit jako odpad podle bodu 13.
Zajistit dostatečné větrání.
- **6.4 Odkaz na jiné oddíly**
Informace o bezpečnému 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**
Na pracovišti zabezpečit dobré větrání a odsávání.
Nádrž opatrně otevřít a zacházet s ní opatrně.
- **Upozornění k ochraně před ohněm a explozí:** 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:** Žádné zvláštní požadavky.
- **Upozornění k hromadnému skladování:** Není nutné.
- **Další údaje k podmínkám skladování:** Nádrž držet neprodyšně uzavřenou.
- **7.3 Specifické konečné / specifická konečná použití** Další relevantní informace nejsou k dispozici.

ODDÍL 8: Omezování expozice / osobní ochranné prostředky

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

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· **Ochrana očí:** *Není potřeba.*

ODDÍL 9: Fyzikální a chemické vlastnosti

· 9.1 Informace o základních fyzikálních a chemických vlastnostech

· Všeobecné údaje

· Vzhled:

Skupenství:	Krystalové
-------------	------------

Barva:	Bílá
--------	------

· Zápach:	Slabý, charakteristický
-----------	-------------------------

· Prahová hodnota zápachu:	Není určeno.
----------------------------	--------------

· Hodnota pH:	Není určeno.
---------------	--------------

· Změna stavu

Bod tání/bod tuhnutí:	192-198 °C
-----------------------	------------

Počáteční bod varu a rozmezí bodu varu:	250 °C
---	--------

· Bod vzplanutí:	Nedá se použít.
------------------	-----------------

· Hořlavost (pevné látky, plyny):	Nedá se použít.
-----------------------------------	-----------------

· Teplota rozkladu:	Není určeno.
---------------------	--------------

· Teplota samovznícení:	Není určeno.
-------------------------	--------------

· Výbušné vlastnosti:	U produktu nehrozí nebezpečí exploze.
-----------------------	---------------------------------------

· Meze výbušnosti:

Dolní mez:	Není určeno.
------------	--------------

Horní mez:	Není určeno.
------------	--------------

· Tlak páry:	Není určeno.
--------------	--------------

· Hustota:	Není určena.
------------	--------------

· Relativní hustota	Není určeno.
---------------------	--------------

· Hustota páry:	Není určeno.
-----------------	--------------

· Rychlost odpařování	Nedá se použít.
-----------------------	-----------------

· Rozpustnost ve / směsitelnost s

vodě:	Není určeno.
-------	--------------

· Rozdělovací koeficient: n-oktanol/voda:	Není určeno.
---	--------------

· Viskozita:

Dynamicky:	Není určeno.
------------	--------------

Kinematicky:	Není určeno.
--------------	--------------

· 9.2 Další informace	Další relevantní informace nejsou k dispozici.
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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.
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· 10.4 Podmínky, kterým je třeba zabránit	Další relevantní informace nejsou k dispozici.
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- **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**
Při požití, při styku s kůží nebo při vdechování může způsobit smrt.
- **Primární dráždivé účinky:**
- **Žíravost/dráždivost pro kůži** *Na základě dostupných údajů nejsou kritéria pro klasifikaci splněna.*
- **Vážné poškození očí / podráždění očí** *Na základě dostupných údajů nejsou kritéria pro klasifikaci splněna.*
- **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**
Podezření na vyvolání rakoviny.
- **Toxicita pro reprodukci** *Na základě dostupných údajů nejsou kritéria pro klasifikaci splněna.*
- **Toxicita pro specifické cílové orgány – jednorázová expozice**
Na základě dostupných údajů nejsou kritéria pro klasifikaci splněna.
- **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.*

CZ

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ODDÍL 14: Informace pro přepravu

<ul style="list-style-type: none"> · 14.1 UN číslo · ADR, IMDG, IATA 	<p style="text-align: right;">UN1572</p>
<ul style="list-style-type: none"> · 14.2 Oficiální (OSN) pojmenování pro přepravu · ADR · IMDG, IATA 	<p style="text-align: right;">1572 KYSELINA KAKODYLOVÁ CACODYLIC ACID</p>
<ul style="list-style-type: none"> · 14.3 Třída/třídy nebezpečnosti pro přepravu · ADR, IMDG, IATA <div style="text-align: center; margin: 10px 0;">  </div> <ul style="list-style-type: none"> · třída · Etiketa 	<p style="text-align: right;">6.1 Jedovaté látky 6.1</p>
<ul style="list-style-type: none"> · 14.4 Obalová skupina · ADR, IMDG, IATA 	<p style="text-align: right;">II</p>
<ul style="list-style-type: none"> · 14.5 Nebezpečnost pro životní prostředí: 	<p style="text-align: right;">Nedá se použít.</p>
<ul style="list-style-type: none"> · 14.6 Zvláštní bezpečnostní opatření pro uživatele · Identifikační číslo nebezpečnosti (Kemlerovo číslo): · EMS-skupina: · Segregation groups · Stowage Category · Segregation Code 	<p style="text-align: right;">Varování: Jedovaté látky 60 6.1-04 (SGG1) Acids E SG35 Stow "separated from" SGG1-acids SG36 Stow "separated from" SGG18-alkalis. SG49 Stow "separated from" SGG6-cyanides</p>
<ul style="list-style-type: none"> · 14.7 Hromadná přeprava podle přílohy II úmluvy MARPOL a předpisu IBC 	<p style="text-align: right;">Nedá se použít.</p>
<ul style="list-style-type: none"> · Přeprava/další údaje: 	<p style="text-align: right;">Nedá se použít.</p>
<ul style="list-style-type: none"> · ADR · Omezené množství (LQ) · Vyňatá množství (EQ) · Přepravní kategorie · Kód omezení pro tunely: 	<p style="text-align: right;">500 g Kód: E4 Nejvyšší čisté množství na vnitřní obal: 1 ml Nejvyšší čisté množství na vnější obal: 500 ml 2 D/E</p>
<ul style="list-style-type: none"> · IMDG · Limited quantities (LQ) · Excepted quantities (EQ) 	<p style="text-align: right;">500 g Code: E4 Maximum net quantity per inner packaging: 1 ml Maximum net quantity per outer packaging: 500 ml</p>
<ul style="list-style-type: none"> · UN "Model Regulation": 	<p style="text-align: right;">UN 1572 KYSELINA KAKODYLOVÁ, 6.1, II</p>

CZ

(pokračování na straně 7)

Bezpečnostní list

podle 1907/2006/ES, Článek 31

Datum vydání: 02.08.2022

Revize: 02.08.2022

Obchodní označení: *Cacodylic Acid, Free Acid, Reagent, ACS*

(pokračování strany 6)

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 Látky neobsažena.*
- *Kategorie Seveso H1 AKUTNÍ TOXICITA*
- *Kvalifikační množství (v tunách) při uplatnění požadavků pro podlimitní množství 5 t*
- *Kvalifikační množství (v tunách) při uplatnění požadavků pro nadlimitní množství 20 t*
- *Rady (EU) č. 649/2012 Annex I Part 1*
- *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.*
- *Nariadení (ES) č. 273/2004 o prekursorech drog* *Látka neobsažena.*
- *Nariadení (ES) č. 111/2005 kterým se stanoví pravidla pro sledování obchodu s prekursory drog mezi Společenstvím a třetími zeměmi*
Látka neobsažena.
- **15.2 Posouzení chemické bezpečnosti:** *Posouzení chemické bezpečnosti nebylo provedeno.*

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)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Acute Tox. 2: Akutní toxicita – Kategorie 2
Acute Tox. 1: Akutní toxicita – Kategorie 1
Carc. 2: Karcinogenita – Kategorie 2

CZ

Veiligheidsinformatieblad

volgens 1907/2006/EG, Artikel 31

datum van de druk: 02.08.2022

Herziening van: 02.08.2022

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

· 1.1 Productidentificatie

· **Handelsnaam:** dimethylarsinezuur

· **Artikelnummer:** 12200, 12201, 12201-1KG, 12201-SP

· **CAS-nummer:**

75-60-5

· **EC-nummer:**

200-883-4

· **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**



GHS06 doodshoofd met gekruiste beenderen

Acute Tox. 2 H300 Dodelijk bij inslikken.

Acute Tox. 1 H310 Dodelijk bij contact met de huid.

Acute Tox. 1 H330 Dodelijk bij inademing.



GHS08 gezondheidsgevaar

Carc. 2 H351 Verdacht van het veroorzaken van kanker.

· **2.2 Etiketteringselementen**

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

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

(Vervolg op blz. 2)

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(Vervolg van blz. 1)

· Gevarenpictogrammen



GHS06 GHS08

· Signaalwoord Gevaar

· Gevarenaanduidingen

H300+H310+H330 Dodelijk bij inslikken, bij contact met de huid en bij inademing.

H351 Verdacht van het veroorzaken van kanker.

· Veiligheidsaanbevelingen

P301+P310 NA INSLIKKEN: onmiddellijk een ANTIGIFCENTRUM/arts raadplegen.

P330 De mond spoelen.

P320 Specifieke behandeling dringend vereist (zie op dit etiket).

P361+P364 Verontreinigde kleding onmiddellijk uittrekken en wassen alvorens deze opnieuw te gebruiken.

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

75-60-5 dimethylarsinezuur

· Identificatienummer(s)

· **EC-nummer:** 200-883-4

RUBRIEK 4: Eerstehulpmaatregelen

· 4.1 Beschrijving van de eerstehulpmaatregelen

· Algemene informatie:

Verontreinigde kleding onmiddellijk uittrekken.

Ademhalingstoestel pas afnemen nadat de verontreinigde kleding verwijderd is.

Bij onregelmatige ademhaling of ademstilstand kunstmatige ademhaling toepassen.

· Na het inademen:

Verse lucht of zuurstof toedienen; deskundige medische hulp invoeren.

Bij bewusteloosheid ligging en vervoer in stabiele zijligging.

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

· Na oogcontact: Ogen met open ooglid een aantal minuten onder stromend water afspoelen en dokter raadplegen.

· Na inslikken: Geen braken teweegbrengen en onmiddellijk medische hulp 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.

(Vervolg op blz. 3)

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(Vervolg van blz. 2)

RUBRIEK 5: Brandbestrijdingsmaatregelen

- **5.1 Blusmiddelen**
- **Geschikte blusmiddelen:** Brandblusmaatregelen op omgeving afstemmen.
- **5.2 Speciale gevaren die door de stof of het mengsel worden veroorzaakt**
Geen verdere relevante informatie verkrijgbaar.
- **5.3 Advies voor brandweeralied**
- **Speciale beschermende kleding:** Ademhalingstoestel aantrekken.

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

- **6.1 Persoonlijke voorzorgsmaatregelen, beschermingsmiddelen en noodprocedures** Niet nodig.
- **6.2 Milieuvorzorgsmaatregelen:** Niet in de riolering/het oppervlaktewater/het grondwater laten terechtkomen.
- **6.3 Insluitings- en reinigingsmethoden en -materiaal:**
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**
Voor goede ventilatie/afzuiging op de werkplaatsen zorgen.
Tanks voorzichtig openen en behandelen.
- **Informatie m.b.t. brand- en ontploffingsgevaar:** Ademhalingstoestellen gereedhouden.
- **7.2 Voorwaarden voor een veilige opslag, met inbegrip van incompatibele producten**
- **Opslag:**
- **Eisen ten opzichte van opslagruimte en tanks:** Geen bijzondere eisen.
- **Informatie m.b.t. gezamenlijke opslag:** Niet noodzakelijk.
- **Verdere inlichtingen over eisen m.b.t. de opslag:** Tanks ondoordringbaar gesloten houden.
- **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:** Vervalt.
- **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.

(Vervolg op blz. 4)

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(Vervolg van blz. 3)

- **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:** Niet noodzakelijk.

RUBRIEK 9: Fysische en chemische eigenschappen

- **9.1 Informatie over fysische en chemische basiseigenschappen**

- **Algemene gegevens**

- **Voorkomen:**

Vorm:	Kristallijn
Kleur:	Wit
Geur:	Zwak, karakteristiek
Geurdrempelwaarde:	Niet bepaald.

- **pH-waarde:** Niet bepaald.

- **Toestandsverandering**

Smelt-/vriespunt:	192-198 °C
Beginkookpunt en kooktraject:	250 °C

- **Vlampunt:** Niet bruikbaar.

- **Ontvlambaarheid (vast, gas):** Niet bruikbaar.

- **Ontledingstemperatuur:** Niet bepaald.

- **Zelfontbrandingstemperatuur:** Niet bepaald.

- **Ontploffingseigenschappen:** Het produkt is niet ontploffingsgevaarlijk.

- **Ontploffingsgrenzen:**

Onderste:	Niet bepaald.
Bovenste:	Niet bepaald.

- **Dampspanning:** Niet bepaald.

Dichtheid:	Niet bepaald.
· Relatieve dichtheid	Niet bepaald.
· Dampdichtheid	Niet bepaald.
· Verdampingsnelheid	Niet bruikbaar.

(Vervolg op blz. 5)

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(Vervolg van blz. 4)

- | | |
|---|---|
| · Oplosbaarheid in/mengbaarheid met Water: | Niet bepaald. |
| · Verdelingscoëfficiënt: n-octanol/water: | Niet bepaald. |
| · Viscositeit | |
| Dynamisch: | Niet bepaald. |
| 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.
- **10.6 Gevaarlijke ontledingsproducten:** Geen gevaarlijke ontbindingsproducten bekend.

RUBRIEK 11: Toxicologische informatie

- **11.1 Informatie over toxicologische effecten**
- **Acute toxiciteit**
Dodelijk bij inslikken, bij contact met de huid en bij inademing.
- **Primaire aandoening:**
- **Huidcorrosie/-irritatie** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.
- **Ernstig oogletsel/oogirritatie** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.
- **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**
Verdacht van het veroorzaken van kanker.
- **Giftigheid voor de voortplanting** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.
- **STOT bij eenmalige blootstelling** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.
- **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.

(Vervolg op blz. 6)

NL

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(Vervolg van blz. 5)

- **Verdere ecologische informatie:**
- **Algemene informatie:**
Waterbezwaarlijkheid (NL): Z(1) niet afbreekbare stoffen met gevaarlijke eigenschappen voor mens en milieu (carcinogeniteit/mutageniteit/ reprotoxiciteit/bioacumulerend 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.

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.

RUBRIEK 14: Informatie met betrekking tot het vervoer

- | | |
|---|--|
| <ul style="list-style-type: none"> · 14.1 VN-nummer · ADR, IMDG, IATA | UN1572 |
| <ul style="list-style-type: none"> · 14.2 Juiste ladingnaam overeenkomstig de modelreglementen van de VN · ADR · IMDG, IATA | 1572 KAKODYLZUUR
CACODYLIC ACID |
| <ul style="list-style-type: none"> · 14.3 Transportgevaarklasse(n) · ADR, IMDG, IATA | 6.1 Giftige stoffen
6.1 |
|  | |
| <ul style="list-style-type: none"> · klasse · Etiket | 6.1 Giftige stoffen
6.1 |
| <ul style="list-style-type: none"> · 14.4 Verpakkingsgroep: · ADR, IMDG, IATA | II |
| <ul style="list-style-type: none"> · 14.5 Milieugevaren: | Niet bruikbaar. |
| <ul style="list-style-type: none"> · 14.6 Bijzondere voorzorgen voor de gebruiker · Gevaarsidentificatienummer (Kemler-getal): · EMS-nummer: · Segregation groups · Stowage Category · Segregation Code | Waarschuwing: Giftige stoffen
60
6.1-04
(SGG1) Acids
E
SG35 Stow "separated from" SGG1-acids
SG36 Stow "separated from" SGG18-alkalis.
SG49 Stow "separated from" SGG6-cyanides |

(Vervolg op blz. 7)

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(Vervolg van blz. 6)

- | | |
|---|--|
| · 14.7 Vervoer in bulk overeenkomstig bijlage II bij Marpol en de IBC-code | Niet bruikbaar. |
| · Transport/verdere gegevens: | |
| · ADR | |
| · Beperkte hoeveelheden (LQ) | 500 g |
| · Uitgezonderde hoeveelheden (EQ) | Code: E4
Grootste netto hoeveelheid per binnenverpakking: 1 ml
Grootste netto hoeveelheid per buitenverpakking: 500 ml |
| · Vervoerscategorie | 2 |
| · Tunnelbeperkingscode | D/E |
| · IMDG | |
| · Limited quantities (LQ) | 500 g |
| · Excepted quantities (EQ) | Code: E4
Maximum net quantity per inner packaging: 1 ml
Maximum net quantity per outer packaging: 500 ml |
| · VN "Model Regulation": | UN 1572 KAKODYLZUUR, 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 niet 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 H1 ACUUT TOXISCH**
- **Drempelwaarde (ton) voor toepassing van voorschriften voor lagedrempelinrichtingen** 5 t
- **Drempelwaarde (ton) voor toepassing van voorschriften voor hogedrempelinrichtingen** 20 t
- **Verordening (EU) Nr. 649/2012 Annex I Part 1**
- **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.
- **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.

(Vervolg op blz. 8)

**Veiligheidsinformatieblad
volgens 1907/2006/EG, Artikel 31**

datum van de druk: 02.08.2022

Herziening van: 02.08.2022

Handelsnaam: dimethylarsinezuur

(Vervolg van blz. 7)

- **Nationale voorschriften:**
- **Gevaarklasse v. water:**
Waterbezwaarlijkheid (NL): Z(1) niet afbreekbare stoffen met gevaarlijke eigenschappen voor mens en milieu (carcinogeniteit/mutageniteit/ reprotoxiciteit/bioacumulerend vermogen/ toxiciteit of persistentie)
- **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)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Acute Tox. 2: Acute toxiciteit – Categorie 2
Acute Tox. 1: Acute toxiciteit – Categorie 1
Carc. 2: Kankerverwekkendheid – Categorie 2

NL

Fiche de données de sécurité

selon 1907/2006/CE, Article 31

Date d'impression : 02.08.2022

Révision: 02.08.2022

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

- **1.1 Identificateur de produit**
- **Nom du produit:** acide dimethylarsinique
- **Code du produit:** 12200, 12201, 12201-1KG, 12201-SP
- **No CAS:**
75-60-5
- **Numéro CE:**
200-883-4
- **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
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**



GHS06 tête de mort sur deux tibias

Acute Tox. 2 H300 Mortel en cas d'ingestion.
Acute Tox. 1 H310 Mortel par contact cutané.
Acute Tox. 1 H330 Mortel par inhalation.



GHS08 danger pour la santé

Carc. 2 H351 Susceptible de provoquer le cancer.

- **2.2 Éléments d'étiquetage**
- **Étiquetage selon le règlement (CE) n° 1272/2008** La substance est classifiée et étiquetée selon le règlement CLP.
- **Pictogrammes de danger**



GHS06 GHS08

- **Mention d'avertissement** Danger
- **Mentions de danger**
H300+H310+H330 Mortel par ingestion, par contact cutané ou par inhalation.
H351 Susceptible de provoquer le cancer.

(suite page 2)

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Nom du produit: acide dimethylarsinique

(suite de la page 1)

- **Conseils de prudence**

P301+P310 EN CAS D'INGESTION: Appeler immédiatement un CENTRE ANTIPOISON/un médecin.

P330 Rincer la bouche.

P320 Un traitement spécifique est urgent (voir sur cette étiquette).

P361+P364 Enlever immédiatement tous les vêtements contaminés et les laver avant réutilisation.

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**

75-60-5 acide dimethylarsinique

- **Code(s) d'identification**

- **Numéro CE:** 200-883-4

RUBRIQUE 4: Premiers secours

- **4.1 Description des premiers secours**

- **Remarques générales:**

Enlever immédiatement les vêtements contaminés par le produit.

Ne retirer la protection respiratoire qu'après avoir retiré les vêtements contaminés.

Respiration artificielle dans le cas d'une respiration irrégulière ou d'un arrêt respiratoire.

- **Après inhalation:**

Donner de l'air frais ou de l'oxygène; demander d'urgence une assistance médicale.

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.

- **Après contact avec les yeux:**

Rincer les yeux, pendant plusieurs minutes, sous l'eau courante en écartant bien les paupières et consulter un médecin.

- **Après ingestion:** Ne pas faire vomir, demander d'urgence une assistance médicale.

- **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:** Adapter les mesures d'extinction d'incendie à l'environnement.

- **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:** Porter un appareil de protection respiratoire.

FR

(suite page 3)

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(suite de la page 2)

RUBRIQUE 6: Mesures à prendre en cas de dispersion accidentelle

- **6.1 Précautions individuelles, équipement de protection et procédures d'urgence** Pas nécessaire.
- **6.2 Précautions pour la protection de l'environnement:**
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:**
Evacuer 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**
Veiller à une bonne ventilation/aspiration du poste de travail.
Ouvrir et manipuler les récipients avec précaution.
- **Préventions des incendies et des explosions:** 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:** Aucune exigence particulière.
- **Indications concernant le stockage commun:** Pas nécessaire.
- **Autres indications sur les conditions de stockage:** Tenir les emballages hermétiquement fermés.
- **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:** Néant
- **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

(suite page 4)

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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:** Pas nécessaire.

RUBRIQUE 9: Propriétés physiques et chimiques

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

· **Indications générales**

· **Aspect:**

Forme: Cristalline

Couleur: Blanc

· **Odeur:** Faible, caractéristique

· **Seuil olfactif:** Non déterminé.

· **valeur du pH:** Non déterminé.

· **Changement d'état**

Point de fusion/point de congélation: 192-198 °C

Point initial d'ébullition et intervalle d'ébullition: 250 °C

· **Point d'éclair** Non applicable.

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

· **Température de décomposition:** Non déterminé.

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

· **Propriétés explosives:** Le produit n'est pas explosif.

· **Limites d'explosion:**

Inférieure: Non déterminé.

Supérieure: Non déterminé.

· **Pression de vapeur:** Non déterminé.

· **Densité:** Non déterminée.

· **Densité relative** Non déterminé.

· **Densité de vapeur:** Non déterminé.

· **Taux d'évaporation:** Non applicable.

· **Solubilité dans/miscibilité avec**

l'eau: Non déterminé.

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

· **Viscosité:**

Dynamique: Non déterminé.

Cinématique: Non déterminé.

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· 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.
- 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
Mortel par ingestion, par contact cutané ou par inhalation.
- Effet primaire d'irritation:
- Corrosion cutanée/irritation cutanée
Compte tenu des données disponibles, les critères de classification ne sont pas remplis.
- Lésions oculaires graves/irritation oculaire
Compte tenu des données disponibles, les critères de classification ne sont pas remplis.
- 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
Susceptible de 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
Compte tenu des données disponibles, les critères de classification ne sont pas remplis.
- 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 minimale dans le sous-sol.

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- 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.

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.

RUBRIQUE 14: Informations relatives au transport

- | | |
|--|---|
| <ul style="list-style-type: none"> · 14.1 Numéro ONU · ADR, IMDG, IATA | <p style="text-align: right;">UN1572</p> |
| <ul style="list-style-type: none"> · 14.2 Désignation officielle de transport de l'ONU · ADR · IMDG, IATA | <p style="text-align: right;">1572 ACIDE CACODYLIQUE
CACODYLIC ACID</p> |
| <ul style="list-style-type: none"> · 14.3 Classe(s) de danger pour le transport · ADR, IMDG, IATA <div style="text-align: center; margin: 10px 0;">  </div> <ul style="list-style-type: none"> · Classe · Étiquette | <p style="text-align: right;">6.1 Matières toxiques.
6.1</p> |
| <ul style="list-style-type: none"> · 14.4 Groupe d'emballage · ADR, IMDG, IATA | <p style="text-align: right;">II</p> |
| <ul style="list-style-type: none"> · 14.5 Dangers pour l'environnement: | <p style="text-align: right;">Non applicable.</p> |
| <ul style="list-style-type: none"> · 14.6 Précautions particulières à prendre par l'utilisateur · Numéro d'identification du danger (Indice Kemler): · No EMS: · Segregation groups · Stowage Category · Segregation Code | <p style="text-align: right;">Attention: Matières toxiques.
60
6.1-04
(SGG1) Acids
E
SG35 Stow "separated from" SGG1-acids
SG36 Stow "separated from" SGG18-alkalis.
SG49 Stow "separated from" SGG6-cyanides</p> |
| <ul style="list-style-type: none"> · 14.7 Transport en vrac conformément à l'annexe II de la convention Marpol et au recueil IBC | <p style="text-align: right;">Non applicable.</p> |
| <ul style="list-style-type: none"> · Indications complémentaires de transport: | |
| <ul style="list-style-type: none"> · ADR · Quantités limitées (LQ) · Quantités exceptées (EQ) | <p style="text-align: right;">500 g
Code: E4
Quantité maximale nette par emballage intérieur: 1 ml
Quantité maximale nette par emballage extérieur: 500</p> |

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Nom du produit: *acide dimethylarsinique*

(suite de la page 6)

·	ml
· Catégorie de transport	2
· Code de restriction en tunnels	D/E
<hr style="border-top: 1px dashed #000;"/>	
· IMDG	
· Limited quantities (LQ)	500 g
· Excepted quantities (EQ)	Code: E4 Maximum net quantity per inner packaging: 1 ml Maximum net quantity per outer packaging: 500 ml
· "Règlement type" de l'ONU:	UN 1572 ACIDE CACODYLIQUE, 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 H1 TOXICITÉ AIGUË**
- **Quantité seuil (tonnes) pour l'application des exigences relatives au seuil bas 5 t**
- **Quantité seuil (tonnes) pour l'application des exigences relatives au seuil haut 20 t**
- **Règlement (CE) N° 649/2012 Annex I Part 1**
- **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 SIGNALLEMENT**
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
- **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)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 2: Toxicité aiguë – Catégorie 2

Acute Tox. 1: Toxicité aiguë – Catégorie 1

Carc. 2: Cancérogénicité – Catégorie 2

Sicherheitsdatenblatt

gemäß 1907/2006/EG, Artikel 31

Druckdatum: 02.08.2022

überarbeitet am: 02.08.2022

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

· **1.1 Produktidentifikator**

· **Handelsname:** Dimethylarsinsäure

· **Artikelnummer:** 12200, 12201, 12201-1KG, 12201-SP

· **CAS-Nummer:**

75-60-5

· **EG-Nummer:**

200-883-4

· **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 Munchen, www.toxinfo.org

Osterreich: +43 1406 43 43, Gesundheit Osterreich 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**



GHS06 Totenkopf mit gekreuzten Knochen

Acute Tox. 2 H300 Lebensgefahr bei Verschlucken.

Acute Tox. 1 H310 Lebensgefahr bei Hautkontakt.

Acute Tox. 1 H330 Lebensgefahr bei Einatmen.



GHS08 Gesundheitsgefahr

Carc. 2 H351 Kann vermutlich Krebs erzeugen.

(Fortsetzung auf Seite 2)

Sicherheitsdatenblatt

gemäß 1907/2006/EG, Artikel 31

Druckdatum: 02.08.2022

überarbeitet am: 02.08.2022

Handelsname: Dimethylarsinsäure

(Fortsetzung von Seite 1)

- **2.2 Kennzeichnungselemente**
- **Kennzeichnung gemäß Verordnung (EG) Nr. 1272/2008**
Der Stoff ist gemäß CLP-Verordnung eingestuft und gekennzeichnet.
- **Gefahrenpiktogramme**



GHS06 GHS08

- **Signalwort Gefahr**
- **Gefahrenhinweise**
H300+H310+H330 Lebensgefahr bei Verschlucken, Hautkontakt oder Einatmen.
H351 Kann vermutlich Krebs erzeugen.
- **Sicherheitshinweise**
P301+P310 BEI VERSCHLUCKEN: Sofort GIFTINFORMATIONSZENTRUM/Arzt anrufen.
P330 Mund ausspülen.
P320 Besondere Behandlung dringend erforderlich (siehe auf diesem Kennzeichnungsetikett).
P361+P364 Alle kontaminierten Kleidungsstücke sofort ausziehen und vor erneutem Tragen waschen.
P405 Unter Verschluss aufbewahren.
P501 Entsorgung des Inhalts / des Behälters gemäß den örtlichen / regionalen / nationalen / internationalen Vorschriften.
- **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**
75-60-5 Dimethylarsinsäure
- **Identifikationsnummer(n)**
- **EG-Nummer:** 200-883-4

ABSCHNITT 4: Erste-Hilfe-Maßnahmen

- **4.1 Beschreibung der Erste-Hilfe-Maßnahmen**
- **Allgemeine Hinweise:**
Mit Produkt verunreinigte Kleidungsstücke unverzüglich entfernen.
Atemschutz erst nach Entfernen verunreinigter Kleidungsstücke abnehmen.
Bei unregelmäßiger Atmung oder Atemstillstand künstliche Beatmung.
- **Nach Einatmen:**
Frischluf- oder Sauerstoffzufuhr; ärztliche Hilfe in Anspruch nehmen.
Bei Bewusstlosigkeit Lagerung und Transport in stabiler Seitenlage.
- **Nach Hautkontakt:** Sofort mit Wasser und Seife abwaschen und gut nachspülen.
- **Nach Augenkontakt:**
Augen bei geöffnetem Lidspalt mehrere Minuten unter fließendem Wasser abspülen und Arzt konsultieren.
- **Nach Verschlucken:** Kein Erbrechen herbeiführen, sofort Arzthilfe zuziehen.
- **4.2 Wichtigste akute und verzögert auftretende Symptome und Wirkungen**
Keine weiteren relevanten Informationen verfügbar.

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- **4.3 Hinweise auf ärztliche Soforthilfe oder Spezialbehandlung**
Keine weiteren relevanten Informationen verfügbar.

ABSCHNITT 5: Maßnahmen zur Brandbekämpfung

- **5.1 Löschmittel**
- **Geeignete Löschmittel:** Feuerlöschmaßnahmen auf die Umgebung abstimmen.
- **5.2 Besondere vom Stoff oder Gemisch ausgehende Gefahren**
Keine weiteren relevanten Informationen verfügbar.
- **5.3 Hinweise für die Brandbekämpfung**
- **Besondere Schutzausrüstung:** Atemschutzgerät anlegen.

ABSCHNITT 6: Maßnahmen bei unbeabsichtigter Freisetzung

- **6.1 Personenbezogene Vorsichtsmaßnahmen, Schutzausrüstungen und in Notfällen anzuwendende Verfahren**
Nicht erforderlich.
- **6.2 Umweltschutzmaßnahmen:** Nicht in die Kanalisation/Oberflächenwasser/Grundwasser gelangen lassen.
- **6.3 Methoden und Material für Rückhaltung und Reinigung:**
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.

ABSCHNITT 7: Handhabung und Lagerung

- **7.1 Schutzmaßnahmen zur sicheren Handhabung**
Für gute Belüftung/Absaugung am Arbeitsplatz sorgen.
Behälter mit Vorsicht öffnen und handhaben.
- **Hinweise zum Brand- und Explosionsschutz:** Atemschutzgeräte bereithalten.
- **7.2 Bedingungen zur sicheren Lagerung unter Berücksichtigung von Unverträglichkeiten**
- **Lagerung:**
- **Anforderung an Lagerräume und Behälter:** Keine besonderen Anforderungen.
- **Zusammenlagerungshinweise:** Nicht erforderlich.
- **Weitere Angaben zu den Lagerbedingungen:** Behälter dicht geschlossen halten.
- **Lagerklasse:**
- **Klassifizierung nach Betriebssicherheitsverordnung (BetrSichV):** -
- **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:** Entfällt.
- **Zusätzliche Hinweise:** Als Grundlage dienen die bei der Erstellung gültigen Listen.

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- **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 unluftunabhängiges 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.

- **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:** Nicht erforderlich.

ABSCHNITT 9: Physikalische und chemische Eigenschaften

· 9.1 Angaben zu den grundlegenden physikalischen und chemischen Eigenschaften

· Allgemeine Angaben

· Aussehen:

Form:	Kristallin
Farbe:	Weiß
Geruch:	Schwach, charakteristisch
Geruchsschwelle:	Nicht bestimmt.

· **pH-Wert:** Nicht bestimmt.

· Zustandsänderung

Schmelzpunkt/Gefrierpunkt:	192-198 °C
Siedebeginn und Siedebereich:	250 °C

· **Flammpunkt:** Nicht anwendbar.

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

· **Zersetzungstemperatur:** Nicht bestimmt.

· **Selbstentzündungstemperatur:** Nicht bestimmt.

· **Explosive Eigenschaften:** Das Produkt ist nicht explosionsgefährlich.

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· Explosionsgrenzen:	
Untere:	Nicht bestimmt.
Obere:	Nicht bestimmt.
· Dampfdruck:	Nicht bestimmt.
· Dichte:	Nicht bestimmt.
· Relative Dichte	Nicht bestimmt.
· Dampfdichte	Nicht bestimmt.
· Verdampfungsgeschwindigkeit	Nicht anwendbar.
· Löslichkeit in / Mischbarkeit mit Wasser:	Nicht bestimmt.
· Verteilungskoeffizient: n-Octanol/Wasser:	Nicht bestimmt.
· Viskosität:	
Dynamisch:	Nicht bestimmt.
Kinematisch:	Nicht bestimmt.
· 9.2 Sonstige Angaben	Keine weiteren relevanten Informationen verfügbar.

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**
Lebensgefahr bei Verschlucken, Hautkontakt oder Einatmen.
- **Primäre Reizwirkung:**
- **Ätz-/Reizwirkung auf die Haut** Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- **Schwere Augenschädigung/-reizung** Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- **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 vermutlich Krebs erzeugen.
- **Reproduktionstoxizität** Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- **Spezifische Zielorgan-Toxizität bei einmaliger Exposition**
Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- **Spezifische Zielorgan-Toxizität bei wiederholter Exposition**
Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.

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· **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.
- **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.

ABSCHNITT 14: Angaben zum Transport

- | | |
|---|-------------------------------------|
| <ul style="list-style-type: none"> · 14.1 UN-Nummer · ADR, IMDG, IATA | UN1572 |
| <ul style="list-style-type: none"> · 14.2 Ordnungsgemäße UN-Versandbezeichnung · ADR · IMDG, IATA | 1572 KAKODYLSÄURE
CACODYLIC ACID |
| <ul style="list-style-type: none"> · 14.3 Transportgefahrenklassen · ADR, IMDG, IATA | 6.1 Giftige Stoffe
6.1 |
| <div style="text-align: center;">  </div> <ul style="list-style-type: none"> · Klasse · Gefahrzettel | 6.1 Giftige Stoffe
6.1 |
| <ul style="list-style-type: none"> · 14.4 Verpackungsgruppe · ADR, IMDG, IATA | II |
| <ul style="list-style-type: none"> · 14.5 Umweltgefahren: | Nicht anwendbar. |

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- | | |
|--|--|
| · 14.6 Besondere Vorsichtsmaßnahmen für den Verwender | Achtung: Giftige Stoffe |
| · Nummer zur Kennzeichnung der Gefahr (Kemler-Zahl): | 60 |
| · EMS-Nummer: | 6.1-04 |
| · Segregation groups | (SGG1) Acids |
| · Stowage Category | E |
| · Segregation Code | SG35 Stow "separated from" SGG1-acids
SG36 Stow "separated from" SGG18-alkalis.
SG49 Stow "separated from" SGG6-cyanides |

- **14.7 Massengutbeförderung gemäß Anhang II des MARPOL-Übereinkommens und gemäß IBC-Code** Nicht anwendbar.

· **Transport/weitere Angaben:**

- | | |
|------------------------------------|--|
| · ADR | |
| · Begrenzte Menge (LQ) | 500 g |
| · Freigestellte Mengen (EQ) | Code: E4
Höchste Nettomenge je Innenverpackung: 1 ml
Höchste Nettomenge je Außenverpackung: 500 ml |
| · Beförderungskategorie | 2 |
| · Tunnelbeschränkungscode | D/E |
| · IMDG | |
| · Limited quantities (LQ) | 500 g |
| · Excepted quantities (EQ) | Code: E4
Maximum net quantity per inner packaging: 1 ml
Maximum net quantity per outer packaging: 500 ml |
| · UN "Model Regulation": | UN 1572 KAKODYLSÄURE, 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 H1 AKUT TOXISCH**
- **Mengenschwelle (in Tonnen) für die Anwendung in Betrieben der unteren Klasse 5 t**
- **Mengenschwelle (in Tonnen) für die Anwendung in Betrieben der oberen Klasse 20 t**
- **Verordnung (EU) Nr. 649/2012 Annex I Part 1**
- **Richtlinie 2011/65/EU zur Beschränkung der Verwendung bestimmter gefährlicher Stoffe in Elektro- und Elektronikgeräten – Anhang II**
Der Stoff ist nicht enthalten.
- **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.

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- **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:**
- **Wassergefährdungsklasse: WGK 3 (Listeneinstufung): stark wassergefährdend.**
- **Sonstige Vorschriften, Beschränkungen und Verbotsverordnungen**
Das Produkt unterliegt der Anlage 2 der Chemikalienverbotsverordnung (ChemVerbotsV) - Anforderungen in Bezug auf die Abgabe
- **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)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 2: Akute Toxizität – Kategorie 2

Acute Tox. 1: Akute Toxizität – Kategorie 1

Carc. 2: Karzinogenität – Kategorie 2

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:** acido dimetilarsinico
- **Articolo numero:** 12200, 12201, 12201-1KG, 12201-SP
- **Numero CAS:**
75-60-5
- **Numeri CE:**
200-883-4

· **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**



GHS06 teschio e tibie incrociate

Acute Tox. 2 H300 Letale se ingerito.

Acute Tox. 1 H310 Letale per contatto con la pelle.

Acute Tox. 1 H330 Letale se inalato.



GHS08 pericolo per la salute

Carc. 2 H351 Sospettato di provocare il cancro.

· **2.2 Elementi dell'etichetta**

- **Etichettatura secondo il regolamento (CE) n. 1272/2008**

La sostanza è classificata ed etichettata conformemente al regolamento CLP.

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· Pittogrammi di pericolo

GHS06 GHS08

· Avvertenza Pericolo**· Indicazioni di pericolo**

H300+H310+H330 Mortale se ingerito, a contatto con la pelle o se inalato.

H351 Sospettato di provocare il cancro.

· Consigli di prudenza

P301+P310 IN CASO DI INGESTIONE: contattare immediatamente un CENTRO ANTIVELENI/un medico.

P330 Sciacquare la bocca.

P320 Trattamento specifico urgente (vedere su questa etichetta).

P361+P364 Togliere immediatamente tutti gli indumenti contaminati e lavarli prima di indossarli nuovamente.

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**

75-60-5 acido dimetilarsinico

· Numeri di identificazione**· Numeri CE:** 200-883-4**SEZIONE 4: Misure di primo soccorso****· 4.1 Descrizione delle misure di primo soccorso****· Indicazioni generali:**

Allontanare immediatamente gli abiti contaminati dal prodotto.

Levarsi la maschera protettiva solamente dopo aver tolto gli abiti contaminati.

In caso di respirazione irregolare o di blocco respiratorio praticare la respirazione artificiale.

· Inalazione:

Portare il soggetto in zona ben areata o somministrare ossigeno; chiedere l'intervento di un medico.

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 e consultare il medico.

· Ingestione: Non provocare il vomito, 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.

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SEZIONE 5: Misure antincendio

- **5.1 Mezzi di estinzione**
- **Mezzi di estinzione idonei:** Adottare provvedimenti antiincendio nei dintorni della zona colpita.
- **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:** Indossare il respiratore.

SEZIONE 6: Misure in caso di rilascio accidentale

- **6.1 Precauzioni personali, dispositivi di protezione e procedure in caso di emergenza** Non necessario.
- **6.2 Precauzioni ambientali:** Impedire infiltrazioni nella fognatura/nelle acque superficiali/nelle acque freatiche.
- **6.3 Metodi e materiali per il contenimento e per la bonifica:**
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**
Accurata ventilazione/aspirazione nei luoghi di lavoro.
Aprire e manipolare i recipienti con cautela.
- **Indicazioni in caso di incendio ed esplosione:** Tener pronto il respiratore.
- **7.2 Condizioni per lo stoccaggio sicuro, comprese eventuali incompatibilità**
- **Stoccaggio:**
- **Requisiti dei magazzini e dei recipienti:** Non sono richiesti requisiti particolari.
- **Indicazioni sullo stoccaggio misto:** Non necessario.
- **Ulteriori indicazioni relative alle condizioni di immagazzinamento:** Mantenere i recipienti ermeticamente 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:** Non Necessario.
- **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.

(continua a pagina 4)

Scheda di dati di sicurezza
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Denominazione commerciale: acido dimetilarsinico

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· 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.

· Occhiali protettivi: Non necessario.

SEZIONE 9: Proprietà fisiche e chimiche

· 9.1 Informazioni sulle proprietà fisiche e chimiche fondamentali**· Indicazioni generali****· Aspetto:**

Forma:	Cristallino
Colore:	Bianco
Odore:	Leggero, caratteristico
Soglia olfattiva:	Non definito.

· valori di pH: Non definito.

· Cambiamento di stato

Punto di fusione/punto di congelamento:	192-198 °C
Punto di ebollizione iniziale e intervallo di ebollizione:	250 °C

· Punto di infiammabilità: Non applicabile.

· Infiammabilità (solidi, gas): Non applicabile.

· Temperatura di decomposizione: Non definito.

· Temperatura di autoaccensione: Non definito.

· Proprietà esplosive: Prodotto non esplosivo.

· Limiti di infiammabilità:

Inferiore:	Non definito.
Superiore:	Non definito.

· Tensione di vapore: Non definito.

· Densità:	Non definito.
· Densità relativa	Non definito.
· Densità di vapore:	Non definito.
· Velocità di evaporazione	Non applicabile.

· Solubilità in/Miscibilità con acqua: Non definito.

(continua a pagina 5)

Scheda di dati di sicurezza
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Denominazione commerciale: acido dimetilarsinico

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- | | |
|--|--|
| · Coefficiente di ripartizione: n-ottanolo/acqua: Non definito. | |
| · Viscosità: | |
| Dinamica: | Non definito. |
| Cinematica: | Non definito. |
| · 9.2 Altre informazioni | Non sono disponibili altre informazioni. |

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**
Mortale se ingerito, a contatto con la pelle o se inalato.
- **Irritabilità primaria:**
- **Corrosione/irritazione cutanea** Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.
- **Lesioni oculari gravi/irritazioni oculari gravi**
Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.
- **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**
Sospettato di 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**
Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.
- **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.

(continua a pagina 6)

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- **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.
- **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.

SEZIONE 14: Informazioni sul trasporto

- | | |
|---|---|
| · 14.1 Numero ONU
· ADR, IMDG, IATA | UN1572 |
| · 14.2 Nome di spedizione dell'ONU
· ADR
· IMDG, IATA | 1572 ACIDO CACODILICO
CACODYLIC ACID |
| · 14.3 Classi di pericolo connesso al trasporto
· ADR, IMDG, IATA | |
|  | |
| · Classe
· Etichetta | 6.1 Materie tossiche
6.1 |
| · 14.4 Gruppo di imballaggio
· ADR, IMDG, IATA | II |
| · 14.5 Pericoli per l'ambiente: | Non applicabile. |
| · 14.6 Precauzioni speciali per gli utilizzatori
· N° identificazione pericolo (Numero Kemler):
· Numero EMS:
· Segregation groups
· Stowage Category
· Segregation Code | Attenzione: Materie tossiche
60
6.1-04
(SGG1) Acids
E
SG35 Stow "separated from" SGG1-acids
SG36 Stow "separated from" SGG18-alkalis.
SG49 Stow "separated from" SGG6-cyanides |
| · 14.7 Trasporto di rinfuse secondo l'allegato II di MARPOL ed il codice IBC | Non applicabile. |

(continua a pagina 7)

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· Trasporto/ulteriori indicazioni:**· ADR****· Quantità limitate (LQ)**

500 g

· Quantità esenti (EQ)

Codice: E4

Quantità massima netta per imballaggio interno: 1 ml

Quantità massima netta per imballaggio esterno: 500 ml

· Categoria di trasporto

2

· Codice di restrizione in galleria

D/E

· IMDG**· Limited quantities (LQ)**

500 g

· Excepted quantities (EQ)

Code: E4

Maximum net quantity per inner packaging: 1 ml

Maximum net quantity per outer packaging: 500 ml

· UN "Model Regulation":

UN 1572 ACIDO CACODILICO, 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 H1 TOSSICITÀ ACUTA**

· **Quantità limite (tonnellate) ai fini dell'applicazione dei requisiti di soglia inferiore 5 t**

· **Quantità limite (tonnellate) ai fini dell'applicazione dei requisiti di soglia superiore 20 t**

· **Regolamento (UE) N. 649/2012 Annex I Part 1**

· **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

· **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

· **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

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Denominazione commerciale: acido dimetilarsinico*CAS: Chemical Abstracts Service (division of the American Chemical Society)**PBT: Persistent, Bioaccumulative and Toxic**vPvB: very Persistent and very Bioaccumulative**Acute Tox. 2: Tossicità acuta – Categoria 2**Acute Tox. 1: Tossicità acuta – Categoria 1**Carc. 2: Cancerogenicità – Categoria 2*

(Segue da pagina 7)

IT

물질안전보건자료 GHS에 따라라따

인쇄일자: 2022.08.02

개정: 2022.08.02

1 화학제품과 회사에 관한 정보

제품제품제명

- **제품명:** Cacodylic Acid, Free Acid, Reagent, ACS
- **상품번호:** 12200, 12201, 12201-1KG, 12201-SP
- **번호번호번호**
75-60-5
- **EC 의번호:**
200-883-4

해당 해당 물질이나 혼합물 관련 권고 및 사용금지용도

- **제품의 권고 용도와 사용 제한** Cacodylic Acid, Free Acid
- **제품의 권고 용도와 사용 제한** 실험실 화학품
- **안전데이터표(Safety Data Sheet)내 공급업체 관련 권고사항** 정보
- **제조사/수입자/유통업체 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** 독성 시험 계획 가능 duct safety department
- **비상연락 전화번호:**
ChemTrec 1-800-424-9300 Contract CCN7661
1-703-527-3887

2 유해성·위험성

- **순물질 또는 혼합물** 분류분류



두개골과 대퇴골

- 급성 독성 - 경구 - 구분2 H300 삼키면 치명적임
- 급성 독성 - 경피 - 구분2 H310 피부와 접촉하면 치명적임
- 급성 독성 - 흡입 - 구분2 H330 흡입하면 치명적임



건강에 위험

(2 쪽에 계속)

물질안전보건자료

GHS에 따라

인쇄일자: 2022.08.02

개정: 2022.08.02

제품명: Cacodylic Acid, Free Acid, Reagent, ACS

(1 쪽부터 계속)

발암성 - 구분2 H351 암을 일으킬 것으로 의심됨

· 라벨 표기 요소

· 라벨 표기 요소

본 화학물질은 화학물질의 분류 및 표기에 관한 국제조화시스템(GHS)에 따라 분류 및 표기되었습니다.

· GHS 그림문자



GHS06 GHS08

· 신호어 위험

유해

삼키거나, 피부에 접촉하거나 흡입하면 치명적인
암을 일으킬 것으로 의심됨

· 예방조치문구

삼켰을 시: 즉시 독성물질센터/병원 연락 필요.

입을 씻어내시오.

긴급히(라벨 참조) 처치를 하시오.

오염된 모든 의복은 즉시 벗고 다시 사용 전 세척하십시오.

밀봉하여 저장하십시오.

(지방/지역/국가/국제 규정에 따라) 에 내용물/용기를 폐기하십시오.

기타기타

· PBT(잔류성, 생물농축성, 독성물질) 및 vPvB(고 잔류성, 고 생물농축성 물질)에 해당하지 않음

· PBT(잔류성, 생물농축성, 독성물질)에 해당하지 않음.

· vPvB(고 잔류성, 고 생물농축성 물질)에 해당하지 않음.

3 구성성분의 명칭 및 함유량

· 화학적 특성: 화학물질

· CAS-번호표시

75-60-5 Cacodylic Acid, Free Acid, Reagent, ACS

식별식별번호

· EC 의번호: 200-883-4

4 응급조치 요령

· 응급조치요령 내용내용

· 일반정보정보

이제품에 의해 오염된 의상은 즉시 제거한다.

반드시 오염된 의상을 완전히 제거한 후에 호흡보호기를 떼어낸다.

불규칙적인 호흡이나 호흡정지상태에서는 인공호흡을 실시한다.

· 흡입했을 때:

신선한 공기나 산소를 공급받고, 의료진의 도움을 구한다.

환자가 의식을 잃었을 경우에는 안전한 자세에서 환자를 운반한다.

· 피부에 접촉했을 때: 즉시 물과 비누로 씻고 잘 행군다.

· 눈에 들어갔을 때: 흐르는 물에 눈을 몇분동안 씻어내고 나서, 의사와 상담한다

· 먹었을 때: 구토를 유발시키지 않는다. 즉시 의료진의 도움을 구한다.

기타기타

가장가장 중요한 정보 중 생명을 위협할 수 있는 정보가 존재하지 않습니다.

(3 쪽에 계속)

물질안전보건자료

GHS에 따라라따

인쇄일자: 2022.08.02

개정: 2022.08.02

제품명: Cacodylic Acid, Free Acid, Reagent, ACS

· **즉각적인 의료처치 및 특별치료가 필요함을 시사하는 징후 중** 정확적인 정보가 존재하지 않습니다. (2 쪽부터 계속)

5 폭발·화재시 대처방법

· **소화제**
· **적절한 소화제:** 주변 환경에 맞는 화재 진화방법을 사용한다.
· **본 화학물질이나 혼합물에서 발생** 특별 취급/최성 추가적인 정보가 존재하지 않습니다.
· **소방관에 대한 신고사항**
화재 **화재 발생 시 적절한 화학용물 보호구 및 예방조치:** 호흡보호장비설치.

6 누출 사고 시 대처방법

· **개인적 예방조치, 보호장비 및 응급 절차 절차 없음.**
환경 환경 오염 예방 조치: 하수도망/해수면위 물물/지하수로 도달하지 않게 한다.
밀폐 밀폐 용기 청소/정화 정보에 소재 소재
항목 13에 따라 오염된 물질을 쓰레기로 처분한다.
충분한 환기가 되도록 한다.
색인 색인 참조
안전 관 리 에 대 한 정 보 는 제 7 장 을 참 고 하 시 오.
개 인 보 호 장 비 에 대 한 정 보 는 제 8 장 을 참 고 하 시 오.
쓰 레 기 처 리 에 대 한 정 보 는 제 13 장 을 참 고 하 시 오.

7 취급 및 저장방법

취급 취급 취급
안전 안전 예방 조치
작업장에서는 통풍이 잘 되고/습기 제거가 잘 되게 주의한다.
조심스럽게 용기를 개봉하거나 취급한다.
화재 화재 발생 시 적절한 예방 대책에 관한 정보 호흡 보호 장 비 를 항 상 비 치 한 다.
· **혼합 위험성 동 인 양 의 전 처 조 건**
보관 보관 보관
· **안전상 저장 방법** 특별 한 요구 사항 이 없 음.
· **하 노 용 공 동 공 동 처 리 에 대 한** 특별 한 주의 사항 이 없 음.
· **보 관 조 건 에 관 한 주 가 정 보 정 보** 용 기 를 새 지 않 게 밀 폐 한 채 보 관 한 다.
· **구 체 적 최 종 최 종 자** 주 가 적 인 정 보 가 존 재 하 지 않 습 니 다.

8 노출방지 및 개인보호구

· **첨단시설 디자인에 대한 추가 정보:** 더 이상 의 자료 는 없 음. 항 목 7 을 참 고 하 시 오.

통제 통제 통제 변수
· **화학물질의 노출기준, 생물학적 노출기준 등:** 생략
· **추가 정보 정보** 소 할 당 시 에 유 효 한 목 록 을 기 초 로 사 용 했 다.

노출 통제 통제 통제
개인 개인 보호 구
· **일반적 보호 조치 및 위생 조치:**
식료품, 음료수와 사료로부터 멀리 떨어져 두는 다.
더러워지거나 음료수가 묻은 옷은 즉시 탈의한다.
휴식 전 이 나 작 업 이 끝 날 때 마 다 손 을 씻 는 다.
방호복은 따로 보관한다.

(4 쪽에 계속)

물질안전보건자료

GHS에 따라라따

인쇄일자: 2022.08.02

개정: 2022.08.02

제품명: Cacodylic Acid, Free Acid, Reagent, ACS

(3 쪽부터계속)

눈과 피부와의 접촉은 피한다.

· 호흡기 보호보호

단 시간 또는 경미한 오염의 경우에는 호흡 여과기를 사용한다. 심각한 또는 장기간 노출시에는 호흡보호장비를 사용한다.

· 눈 보호보호



보호용 장갑

장갑재질은제품 / 원료 / 조제를투과시키지않아야하고, 내구성이있어야한다.

테스트를 하지 않았기 때문에 제품 / 조제 / 화학 혼합물에 적합한 장갑재질에 대한 추천이 없다.

투과 시간, 침투율과 저하를 고려해서 장갑 재료를 선택한다.

· 장갑 의재료

적합한장갑의선정은재질차이뿐아니라품질기준의차이도고려하여이루어져야하고제조업자에따라서도다르게선정되어야한다.

· 장갑 재료의 투과 시간 정확한관통시간은보호장갑제조자에의하여인지되고, 준수되어야한다.

· 눈 보호보호 필요 없음.

9 물리화학적 특성

기본 물리화학적 특성에 대한 기본 정보

· 일반정보

외형외형외형

· 물리적 상태상 태

수정

· 색:

하얀

· 냄새냄새냄새

약한, 특색있는

· 후각역치

알맞지않다.

· pH:

알맞지않다.

· 상태변화

· 녹는점/어는점:

192-198 °C

· 초기초기 끓는점과 끓는점범위범위

250 °C

· 인화점:

해당사항 없음.

· 인화성고체고체고체

해당사항 없음.

· 분해온도

알맞지않다.

· 자기점화:

알맞지않다.

· 폭발위험:

이제품은폭발위험성이없다

인화 안전 인화 폭발 폭발 위험성 상한 상한 하한

· 아래로:

알맞지않다.

· 위로위로위로

알맞지않다.

· 증기압:

알맞지않다.

· 밀도밀도밀도

맞지않는다.

· 비중비중비중

알맞지않다.

· 증기밀도:

알맞지않다.

· 증발 증발 증발 속도

해당사항 없음.

· 용해도:

· 물:

알맞지않다.

(5 쪽에계속)

물질안전보건자료

GHS에 따라 라다

인쇄일자: 2022.08.02

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제품명: Cacodylic Acid, Free Acid, Reagent, ACS

(5 쪽부터 계속)

13 폐기시 주의사항

- 폐기물 처리 방법
권고 권고 규정에 따라 폐기물 처리와 함께 처리되어서는 안 된다. 하수도망으로 유입되어서는 안 된다.
- 비위생적 포장 포장
권고 권고 규정에 따라 지침에 입각한 폐기물 처리.

14 운송에 필요한 정보

유엔 유엔 번호 · ADR, IMDG, IATA	UN1572
적정 적정 적정명 · ADR · IMDG, IATA	1572 CACODYLIC ACID CACODYLIC ACID
교통 교통 교통 · ADR, IMDG, IATA	
	
등급 등급 등급 · 위험 라벨 라벨	6.1 독성 물질 6.1
· 용기 등급 · ADR, IMDG, IATA	II
· 환경적 유해 물질:	해당 사항 없음.
· 이동 특별 특별 조치 위험 위험 위험 코드 · E 번호 번호 · Segregation groups · Stowage Category · Segregation Code	경고: 독성 물질 60 6.1-04 (SGG1) Acids E SG35 Stow "separated from" SGG1-acids SG36 Stow "separated from" SGG18-alkalis. SG49 Stow "separated from" SGG6-cyanides
· MARPOL73/78(선박으로부터의 해양 오염 방지 협약) 부속서 2 및 IBC Code(국제 선적 화물 코드)에 따라 별도 별도 별도 운송 운송	해당 사항 없음.
· 운송 추가 정보	
· ADR 한정 한정 한정 수량) · Excepted quantities (EQ)	500 g Code: E4 Maximum net quantity per inner packaging: 1 ml Maximum net quantity per outer packaging: 500 ml
운송 운송 운송 구분 터널 터널 터널 코드	2 D/E

(7 쪽에 계속)

물질안전보건자료

GHS에 따라라따

인쇄일자: 2022.08.02

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제품명: Cacodylic Acid, Free Acid, Reagent, ACS

(6 쪽부터계속)

· IMDG	
· Limited quantities (LQ)	500 g
· Excepted quantities (EQ)	Code: E4
	Maximum net quantity per inner packaging: 1 ml
	Maximum net quantity per outer packaging: 500 ml
· UN번호	UN 1572 CACODYLIC ACID, 6.1, II

15 법적 규제현황

- 산업안전보건법에 의한 유해위험물 규제
- 제조제한물질: 성분이포함되어있지않다
- 허가대상물질: 성분이포함되어있지않다
- 관리대상유해물질: 성분이포함되어있지않다
- 작업환경측정 대상 유해인자 성분이포함되어있지않다
- 특수건강진단 대상 유해인자 성분이포함되어있지않다
- 해당해당물질 또는 혼합물 에 대한 유해위험물 규제 관련 규정을 참조하십시오. 법률적인 정보가 존재하지 않습니다.
- 화학물질관리법
- 사고대비물질 성분이포함되어있지않다
- 금지물질 성분이포함되어있지않다
- 제한물질 성분이포함되어있지않다
- 유독물질 성분이포함되어있지않다
- 허가물질 성분이포함되어있지않다
- 등록물질 또는 신고 대상 화학물질 성분이포함되어있지않다
- '21년까지 등록하여야 할 암, 돌연변이, 생식능력 이상을 일으키거나 일으킬 우려가 있는 유해화학물질 성분이포함되어있지않다
- 중점관리물질(제관제관 관련) 성분이포함되어있지않다
- 라벨 라벨 요소
- 본 화학물질은 화학물질의 분류 및 표기에 관한 국제화학시스템(GHS)에 따라 분류 및 표기되었습니다.
- GHS 그림문자



GHS06 GHS08

- 신호어 위험
- 유해위험문구
- 삼키거나, 피부에 접촉하거나 흡입하면 치명적인 암을 일으킬 것으로 의심됨
- 예방조치문구
- 삼켰을 시: 즉시 독성물질센터/병원 연락 필요.
- 입을 씻어내시오.
- 긴급히(라벨 참조) 처치를 하시오.
- 오염된 모든 의복은 즉시 벗고 다시 사용 전 세척하십시오.
- 밀봉하여 저장 하시오.
- (지방/지역/국가/국제 규정에 따라) 에 내용물/용기를 폐기 하시오.
- 화학물질 안전성 평가 평가 화학물질 안전성 평가가 수행되지 않음

물질안전보건자료

GHS에 따라라따

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(7 쪽부터계속)

16 그 밖의 참고사항

이보고는우리지식에대한오늘날의상태에대하여평가하고있다, 하지만이보고서는생산특성에관한보증은
기슬하지않았으며계약적인법을관계에기반을두고있지도않다

· **담당자:**

최초 **최초 작성일자:** 2022.08.02

개정 **개정 일자:** 1 / 2022.08.02

· **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)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

KR

Sikkerhetsdatablad

iflg. forordning (EF) nr. 1907/2006, Artikkel 31

Trykkdato: 02.08.2022

revidert den: 02.08.2022

Avsnitt 1: Identifikasjon av stoffet/stoffblandingen og av selskapet/foretaket

- **1.1 Produktidentifikator**
- **Handelsnavn:** *Cacodylic Acid, Free Acid, Reagent, ACS*
- **Artikkelnummer:** *12200, 12201, 12201-1KG, 12201-SP*
- **CAS-nummer:**
75-60-5
- **EC nummer:**
200-883-4
- **1.2 Relevante identifiserte bruksområder for stoffet eller stoffblandingen og bruk som frarådes**
Ikke noe mer relevant informasjon tilgjengelig.
- **Bruk av stoffet/ tilberedning** *laboratoriekjemikalier*
- **1.3 Opplysninger om leverandøren av sikkerhetsdatabladet**
- **Produsent/leverandør:**
*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*
- **Avdeling for nærmere informasjon:** *Product safety department*
- **1.4 Nødtelefonnummer**
*ChemTrec 1-800-424-9300 Contract CCN7661
1-703-527-3887*

Avsnitt 2: Fareidentifikasjon

- **2.1 Klassifisering av stoffet eller stoffblandingen**
- **Klassifisering i henhold til EC-forskrift nr.1272/2008**



GHS06 Dødningehode med korslagte knokler

Acute Tox. 2 H300 Dødelig ved svelging.

Acute Tox. 1 H310 Dødelig ved hudkontakt.

Acute Tox. 1 H330 Dødelig ved innånding.



GHS08 Helsefare

Carc. 2 H351 Mistenkes for å kunne forårsake kreft.

- **2.2 Merkingselementer**
- **Merking iht. bestemmelse (EC) Nr. 1272/2008**
Substansen er klassifisert og merket i henhold til CLP-forordningen.
- **Farepiktogrammer**



GHS06



GHS08

- **Varselord Fare**
- **Faresetninger**
H300+H310+H330 Dødelig ved svelging, hudkontakt eller innånding.

(fortsatt på side 2)

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(fortsatt fra side 1)

H351 *Mistenkes for å kunne forårsake kreft.*

· Sikkerhetssetninger

P301+P310 *VED SVELGING: Kontakt umiddelbart et GIFTINFORMASJONSSENTER/ en lege.*

P330 *Skyll munnen.*

P320 *Særlig behandling kreves umiddelbart (se på etiketten).*

P361+P364 *Tilsølte klær må fjernes straks og vaskes før bruk.*

P405 *Oppbevares innelåst.*

P501 *Innholdet / emballasjen skal avhendes i henhold til de lokale / regionale / nasjonale / internasjonale forskrifter.*

· 2.3 Andre farer

· Resultater av PBT- og vPvB-vurdering

· **PBT:** Ikke brukbar.

· **vPvB:** Ikke brukbar.

Avsnitt 3: Sammensetning/opplysninger om bestanddeler

· 3.1 Kjemisk karakterisering: Stoffer

· CAS-nr. betegnelse

75-60-5 *Cacodylic Acid, Free Acid, Reagent, ACS*

· Identifikasjonsnummer(numre)

· **EC nummer:** 200-883-4

Avsnitt 4: Førstehjelpstiltak

· 4.1 Beskrivelse av førstehjelpstiltak

· Generelle informasjoner:

Klær som er tilsølt med produktet må fjernes omgående.

Åndedrettsbeskyttelse må først fjernes etter at tilsølte klær er fjernet.

Kunstig åndedrett ved uregelmessig åndedrett eller åndedrettsstillstand.

· Etter innånding:

Tilførsel av frisk luft eller surstoff; søk legehjelp.

Ved bevisstløshet lagring og transport i stabil sidestilling.

· **Etter hudkontakt:** *Vask straks med vann og sepe og skyll godt etterpå.*

· **Etter øyekontakt:** *Skyll øynene med åpne øyenlokk i flere minutter under rennende vann og tilkall lege.*

· **Etter svelging:** *Ikke få pasienten til å kaste opp. Tilkall lege straks.*

· 4.2 De viktigste symptomene og virkningene, både akutte og forsinkede

Ikke noe mer relevant informasjon tilgjengelig.

· 4.3 Angivelse av om umiddelbar legehjelp og spesialbehandling er nødvendig

Ikke noe mer relevant informasjon tilgjengelig.

Avsnitt 5: Brannsløkkingstiltak

· 5.1 Sløkkingsmidler

· **Egnede slukningsmidler:** *Brannslukningstiltak tilpasses omgivelsene.*

· **5.2 Særlige farer knyttet til stoffet eller stoffblandingen** *Ikke noe mer relevant informasjon tilgjengelig.*

· 5.3 Råd til brannmannskaper

· **Spesielt verneutstyr:** *Ta på egnet åndedrettsbeskyttelse.*

Avsnitt 6: Tiltak ved utilsiktede utslipp

· **6.1 Personlige forsiktighetsregler, personlig verneutstyr og nødrutiner** *Ikke nødvendig.*

(fortsatt på side 3)

Sikkerhetsdatablad

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(fortsatt fra side 2)

- **6.2 Forsiktighetsregler med hensyn til miljø** La ikke produktet komme ned i kloakk/overflatevann/grunnvann.
- **6.3 Metoder og materialer for oppsamling og rensing**
Bortskaff kontaminert matereriale som avfall i.h.t. punkt 13.
Sørg for tilstrekkelig ventilasjon.
- **6.4 Henvisning til andre avsnitt**
Informasjoner om sikker håndtering, se kapittel 7.
Informasjoner om personlig beskyttelsesutstyr, se kapittel 8.
Informasjoner om bortskaffelse/deponering, se kapittel 13.

Avsnitt 7: Håndtering og lagring

- **7.1 Forsiktighetsregler for sikker håndtering**
Sørg for god ventilasjon/avsugning på arbeidsplassen.
Beholderne må åpnes og håndteres forsiktig.
- **Henvisninger om brann- og eksplosjonsvern:** Hold åndedrettsbeskyttelse i beredskap.
- **7.2 Vilkår for sikker lagring, herunder eventuelle uforenligheter**
- **Lagring:**
- **Krav til lagerrom og beholdere:** Ingen spesielle krav.
- **Informasjoner om felles lagring:** Ikke nødvendig.
- **Ytterligere informasjoner om lagervilkårene:** Hold beholderne tett tillukket.
- **7.3 Særlig(e) sluttanvendelse(r)** Ikke noe mer relevant informasjon tilgjengelig.

Avsnitt 8: Eksponeringskontroll / personlig verneutstyr

- **8.1 Kontrollparametere**
- **Ytterligere informasjoner om utforming av tekniske anlegg:** Ingen ytterligere informasjoner, se punkt 7.
- **Komponenter med grenseverdier for arbeidsplass som må overholdes:** Bortfaller.
- **Ytterligere informasjoner:** Basis: listene som var gyldige ved oppstillingen.
- **8.2 Eksponeringskontroll**
- **Personlig verneutstyr:**
- **Generelle verne- og hygienetiltak:**
Holdes adskilt fra næringsmidler, drikkevarer og førstoffer.
Fjern omgående forurensede, gjennomvætede klær.
Vask hendene før arbeidspauser og ved arbeidets slutt.
Beskyttelseskler må oppbevares adskilt.
Unngå berøring med øyne og hud.
- **Åndedrettsvern:**
Ved korttidig eller liten belastning åndedrettsfilterapparat; ved intensiv eller lengre utsetting: bruk omluft-uavhengig åndedrettsbeskyttelsesapparat.
- **Håndvern:**



Beskyttelseshansker

- Hanskematerialet må være ugjennomtrengelig og bestandig overfor produktet /stoffet /blandingen.
På grunn av manglende tester kan det ikke gis noen anbefaling om hanskemateriale for produktet / tilberedningsprosessen/kjemikalieblanding.
Hanskematerialet velges under hensyntagen til holdbarhetstid, gjennomtrengelighet og degradering.
- **hanskemateriale**
Valget av egnet hanske er ikke bare avhengig av materiale, men også av andre kvalitetskjennetegn og er forskjellig fra produsent til produsent.

(fortsatt på side 4)

Sikkerhetsdatablad

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- **gjennomtrengingstid for hanskemateriale**
Den nøyaktige holdbarhetstiden må bringes på det rene hos hanskeprodusenten og overholdes.
- **Øyevern:** Ikke nødvendig.

Avsnitt 9: Fysiske og kjemiske egenskaper

- **9.1 Opplysninger om grunnleggende fysiske og kjemiske egenskaper**
- **alminnelige opplysninger**
- **Utseende:**
 - **Form:** Krystallinsk
 - **Farge:** Hvit
- **Lukt:** Svak, karakteristisk
- **Lukterskel:** Ikke bestemt.
- **pH-verdi:** Ikke bestemt.
- **Tilstandsendring**
 - **Smeltepunkt/frysepunkt:** 192-198 °C
 - **Startkokepunkt og kokeområde:** 250 °C
- **Flammepunkt:** Ikke brukbar.
- **Antennelighet (fast stoff, gass):** Ikke brukbar.
- **Nedbrytingstemperatur:** Ikke bestemt.
- **Selvantennelsestemperatur:** Ikke bestemt.
- **Eksplorative egenskaper:** Produktet er ikke eksplosjonsfarlig.
- **Ekspljosjonsgrenser:**
 - **Nedre:** Ikke bestemt.
 - **Øvre:** Ikke bestemt.
- **Damptrykk:** Ikke bestemt.
- **Tetthet:** Ikke bestemt.
- **Relativ tetthet:** Ikke bestemt.
- **Damptetthet:** Ikke bestemt.
- **Fordampingshastighet:** Ikke brukbar.
- **Løslighet i / blandbarhet med vann:** Ikke bestemt.
- **Fordelingskoeffisient; n-oktanol/vann:** Ikke bestemt.
- **Viskositet:**
 - **Dynamisk:** Ikke bestemt.
 - **Kinematisk:** Ikke bestemt.
- **9.2 Andre opplysninger** Ikke noe mer relevant informasjon tilgjengelig.

Avsnitt 10: Stabilitet og reaktivitet

- **10.1 Reaktivitet** Ikke noe mer relevant informasjon tilgjengelig.
- **10.2 Kjemisk stabilitet**
- **Termisk spaltning / vilkår som må unngås:** Ingen spaltning ved formålsriktig bruk.
- **10.3 Risiko for farlige reaksjoner** Det kjennes ingen farlige reaksjoner.

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- **10.4 Forhold som skal unngås** Ikke noe mer relevant informasjon tilgjengelig.
- **10.5 Uforenlige materialer** Ikke noe mer relevant informasjon tilgjengelig.
- **10.6 Farlige nedbrytingsprodukter** Ingen farlige spaltningsprodukter kjente.

Avsnitt 11: Toksikologiske opplysninger

- **11.1 Opplysninger om toksikologiske virkninger**
- **Akutt giftighet**
Dødelig ved svelging, hudkontakt eller innånding.
- **Primær irritasjonsvirkning:**
- **Hudetsing/hudirritasjon** Basert på tilgjengelige data, klassifiseringskriteriene ikke oppfylt.
- **Alvorlig øyeskade/øyeirritasjon** Basert på tilgjengelige data, klassifiseringskriteriene ikke oppfylt.
- **Sensibilisering ved innånding eller hudkontakt** Basert på tilgjengelige data, klassifiseringskriteriene ikke oppfylt.
- **Informasjon om følgende grupper med potensielle virkninger:**
- **CMR-virkninger (kreftfremkallende virkninger, arvestoffskadelige og reproduksjonsskadelige virkninger)**
- **Arvestoffskadelig virkning på kjønnsceller** Basert på tilgjengelige data, klassifiseringskriteriene ikke oppfylt.
- **Kreftfremkallende egenskap**
Mistenkes for å kunne forårsake kreft.
- **Reproduksjonstoksisitet** Basert på tilgjengelige data, klassifiseringskriteriene ikke oppfylt.
- **STOT – enkelteksponering** Basert på tilgjengelige data, klassifiseringskriteriene ikke oppfylt.
- **STOT – gjentatt eksponering** Basert på tilgjengelige data, klassifiseringskriteriene ikke oppfylt.
- **Aspirasjonsfare** Basert på tilgjengelige data, klassifiseringskriteriene ikke oppfylt.

Avsnitt 12: Økologiske opplysninger

- **12.1 Giftighet**
- **Akvatisk toksisitet:** Ikke noe mer relevant informasjon tilgjengelig.
- **12.2 Persistens og nedbrytbarhet** Ikke noe mer relevant informasjon tilgjengelig.
- **12.3 Bioakkumuleringsevne** Ikke noe mer relevant informasjon tilgjengelig.
- **12.4 Mobilitet i jord** Ikke noe mer relevant informasjon tilgjengelig.
- **Ytterligere økologiske informasjoner:**
- **Generelle informasjoner:**
Vannfareklasse 3 (D) (listeklassifisering): meget farlig for vann
Ikke la stoffet komme ned i grunnvannet, i vassdrag eller i kloakker, heller ikke i små mengder.
Fare for drikkevann allerede ved utstrømning av meget små mengder i marken.
- **12.5 Resultater av PBT- og vPvB-vurdering**
- **PBT:** Ikke brukbar.
- **vPvB:** Ikke brukbar.
- **12.6 Andre skadevirkninger** Ikke noe mer relevant informasjon tilgjengelig.

Avsnitt 13: Sluttbehandling

- **13.1 Avfallsbehandlingsmetoder**
- **Anbefaling:** Må ikke bortskaffes sammen med husholdningsavfall. Må ikke komme ned i kloakk.
- **Ikke rengjort emballasje:**
- **Anbefaling:** Deponering i henhold til myndighetenes forskrifter.

NO

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Avsnitt 14: Transportopplysninger

<ul style="list-style-type: none"> · 14.1 FN-nummer · ADR, IMDG, IATA 	UN1572
<ul style="list-style-type: none"> · 14.2 FN-forsendelsesnavn · ADR · IMDG, IATA 	1572 KAKODYLSYRE CACODYLIC ACID
<ul style="list-style-type: none"> · 14.3 Transportfareklasse(r) · ADR, IMDG, IATA 	<div style="text-align: center;">  </div>
<ul style="list-style-type: none"> · klasse · Fareseddel 	6.1 Giftige stoffer 6.1
<ul style="list-style-type: none"> · 14.4 Emballasjegruppe · ADR, IMDG, IATA 	II
<ul style="list-style-type: none"> · 14.5 Miljøfarer 	Ikke brukbar.
<ul style="list-style-type: none"> · 14.6 Særlige forsiktighetsregler ved bruk · Farenummer (Kemler-tall): · EMS-nummer: · Segregation groups · Stowage Category · Segregation Code 	Advarsel: Giftige stoffer 60 6.1-04 (SGG1) Acids E SG35 Stow "separated from" SGG1-acids SG36 Stow "separated from" SGG18-alkalis. SG49 Stow "separated from" SGG6-cyanides
<ul style="list-style-type: none"> · 14.7 Bulktransport i henhold til vedlegg II til MARPOL 73/78 og IBC-regelverket 	Ikke brukbar.
<ul style="list-style-type: none"> · Transport/ytterligere informasjoner: 	
<ul style="list-style-type: none"> · ADR · Begrenset mengde (LQ) · Unntatte mengder (EQ) 	500 g Kode: E4 Maksimal nettovekt per inneremballasje: 1 ml Maksimal nettovekt per ytteremballasje: 500 ml
<ul style="list-style-type: none"> · Transportkategori · Tunnel restriksjonskode 	2 D/E
<ul style="list-style-type: none"> · IMDG · Limited quantities (LQ) · Excepted quantities (EQ) 	500 g Code: E4 Maximum net quantity per inner packaging: 1 ml Maximum net quantity per outer packaging: 500 ml
<ul style="list-style-type: none"> · UN "Model Regulation": 	UN 1572 KAKODYLSYRE, 6.1, II

NO

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Avsnitt 15: Opplysninger om regelverk

- **15.1 Særlige bestemmelser / særskilt lovgivning om sikkerhet, helse og miljø for stoffet eller stoffblandingen**
- **Direktiv 2012/18/EU**
- **Spesifiserte farlige stoffer - VEDLEGG I** Inneholder ikke stoffet.
- **Seveso kategori H1**
- **Mengdegrense (i tonn) for anvendelsen av krav til virksomheter på lavere nivå 5 t**
- **Mengdegrense (i tonn) for anvendelsen av krav til virksomheter på høyere nivå 20 t**
- **Forordning (EF) nr. 649/2012 Annex I Part 1**
- **Direktiv 2011/65/EF om begrensning av bruken av visse farlige stoffer i elektrisk og elektronisk utstyr - Vedlegg II**
Inneholder ikke stoffet.
- **Forordning (EF) nr. 273/2004 om utgangsstoffer for narkotika** Inneholder ikke stoffet.
- **Forordning (EF) nr. 111/2005 om fastsettelse av regler for overvåking av handelen med utgangsstoffer for narkotika mel-lom Fellesskapet og tredjestater**
Inneholder ikke stoffet.
- **15.2 Vurdering av kjemikaliesikkerhet** En kjemisk sikkerhetsvurdering er ikke utført.

Avsnitt 16: Andre opplysninger

Opplysningene er basert på vårt kjennskap i dag. De utgjør dog ingen forsikring om produktegenskaper og er ikke grunnlag for noe kontraktsmessig rettsforhold.

- **Forkortelser og akronymer:**
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)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Acute Tox. 2: Akutt giftighet – Kategori 2
Acute Tox. 1: Akutt giftighet – Kategori 1
Carc. 2: Kreftframkallende egenskaper – Kategori 2

NO

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1 Идентификация химической продукции и сведения о производителе или поставщике

- **Идентификатор продукта**
- **Торговое наименование:** *Cacodylic Acid, Free Acid, Reagent, ACS*
- **Артикульный номер:** 12200, 12201, 12201-1KG, 12201-SP
- **Номер CAS:**
75-60-5
- **Номер ЕС:**
200-883-4
- **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**



череп и скрещённые кости

Острая токсичность 2 H300 Смертельно при проглатывании.

Острая токсичность 2 H310 Смертельно при контакте с кожей.

Острая токсичность 2 H330 Смертельно при вдыхании.



опасность для здоровья

Канцерогенность 2 H351 Предположительно вызывает рак.

- **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**



GHS06



GHS08

(Продолжение на странице 2)

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(Продолжение страницы 1)

- **Сигнальное слово** *Опасно*
- **Предупреждения об опасности**
*Смертельно при проглатывании, при контакте с кожей или при вдыхании.
Предположительно вызывает рак.*
- **Меры предосторожности**
ПРИ ПРОГЛАТЫВАНИИ: Немедленно обратиться в **ТОКСИКОЛОГИЧЕСКИЙ ЦЕНТР/к врачу.**
*Прополоскать рот.
Принять срочные специальные меры (см. на этом маркировочном знаке).
Немедленно снять загрязненную одежду и промыть ее перед повторным использованием.
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**
75-60-5 Cacodylic Acid, Free Acid, Reagent, ACS
- **Идентификационный (-ые) номер (-а)**
- **Номер ЕС:** *200-883-4*

4 Меры первой помощи

- **Описание мер первой медицинской помощи**
- **Общие указания:**
*Немедленно снять предметы одежды, загрязнённые данным продуктом.
Снимать средства защиты дыхательных путей только после того, как были сняты все заражённые предметы одежды.
При неровном дыхании или при остановке дыхания сделать пострадавшему искусственное дыхание.*
- **После вдыхания:**
*Обеспечить доступ свежего воздуха или кислорода, вызвать врача.
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:**
Промыть открытый глаз под проточной водой в течение нескольких минут, затем обратиться к врачу.
- **После проглатывания:** *Не вызывать рвоту, немедленно обратиться за медицинской помощью.*
- **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.

RU

(Продолжение на странице 3)

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(Продолжение страницы 2)

5 Меры и средства обеспечения пожаровзрывобезопасности

- Средства пожаротушения
- **Надлежащие средства тушения:**
Предпринять меры по тушению пожара, соответствующие окружающим условиям.
- **Особые опасности, создаваемые веществом или смесью**
Отсутствует какая-либо соответствующая информация.
- **Рекомендации для пожарных**
- **Защитное оснащение:** Применение устройства защиты дыхательных путей.

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**
Не требуется.
- **Меры по защите окружающей среды:**
Не допускать попадания в канализационную систему / поверхностные или грунтовые воды.
- **Методы и материалы для локализации и очистки:**
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**
Обеспечить хорошую вентиляцию / вытяжку на рабочем месте.
Соблюдать осторожность при открывании ёмкостей и при обращении с ними.
- **Указания по защите от пожаров и взрывов:** Держать наготове устройство защиты органов дыхания.
- **Условия безопасного хранения, включая несовместимости**
- **Хранение:**
- **Требования, предъявляемые к складским помещениям и таре:**
Никаких особых требований не предъявляется.
- **Указания по совместимости с другими веществами при хранении:** Не требуется.
- **Дальнейшие данные по условиям хранения:** Держать ёмкости плотно закрытыми.
- **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.

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- **Параметры контроля**
- **Составляющие компоненты с предельными значениями, требующие мониторинга на рабочих местах:**
Не требуется.
- **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.

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:** Не требуется.

9 Физико-химические свойства

- **Информация по основным физическим и химическим свойствам**

- **Общая информация**

- **Внешний вид:**

Форма:

Кристаллическое

Цвет:

Белое

- **Запах:**

Слабо, характерно

- **Порог запаха:**

Не определено.

- **Значение pH:**

Не определено.

(Продолжение на странице 5)

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(Продолжение страницы 4)

· Изменение состояния Точка плавления / интервал температур плавления:	192-198 °C
Точка кипения / интервал температур кипения:	250 °C
· Температурная точка вспышки:	Неприменимо.
· Воспламеняемость (твёрдое, газообразное вещество):	Неприменимо.
· Температура распада:	Не определено.
· Самовоспламеняемость:	Не определено.
· Взрывоопасность:	Продукт не является взрывоопасным.
· Границы взрываемости: Нижняя:	Не определено.
Верхняя:	Не определено.
· Давление пара:	Не определено.
· Плотность:	Не определено.
· Относительная плотность	Не определено.
· Плотность пара	Не определено.
· Скорость испарения	Неприменимо.
· Растворимость в / Смешиваемость с водой:	Не определено.
· Коэффициент распределения (n-октанол / вода):	Не определено.
· Вязкость: Динамическая:	Не определено.
Кинематическая:	Не определено.
· Другая информация	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:**
- **Первичное раздражающее воздействие:**
- **на кожу:** Нет раздражающего воздействия.
- **на глаза:** Нет раздражающего воздействия.

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(Продолжение страницы 5)

- **Сенсибилизация:** *Неизвестно о наличии сенсибилизирующего воздействия.*
- **Дополнительные токсикологические указания:** *Опасность посредством поглощения кожей.*
- **Информация по следующим группам потенциальных воздействий:**
- **Канцерогенное, изменяющее наследственность и вызывающее бесплодие действие**
Канцерогенность 2

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
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.

14 Информация при перевозках (транспортировании)

- | | |
|--|--------------------------|
| · Номер UN | |
| · ADR, IMDG, IATA | UN1572 |
| · Собственное транспортное наименование ООН | |
| · ADR | 1572 КИСЛОТА КАКОДИЛОВАЯ |
| · IMDG, IATA | SACODYLIC ACID |

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(Продолжение страницы 6)

· классов опасности транспорта

· ADR, IMDG, IATA



· Класс

6.1 Токсичные вещества

· Этикетка для опасного содержимого

6.1

· Группа упаковки

· ADR, IMDG, IATA

II

· Экологические риски:

Неприменимо.

· Особые меры предосторожности для пользователей

Осторожно: Токсичные вещества

· Идентификационный номер опасности (Код опасности по Кемлеру):

60

· Номер EMS:

6.1-04

· Segregation groups

(SGG1) Acids

· Stowage Category

E

· Segregation Code

SG35 Stow "separated from" SGG1-acids

SG36 Stow "separated from" SGG18-alkalis.

SG49 Stow "separated from" SGG6-cyanides

· 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

· Ограниченные объёмы (LQ)

500 г

· Освобожденные количества (EQ)

Код: E4

Максимальное количество нетто на внутреннюю тару: 1 мл

Максимальное количество нетто на наружную тару: 500 мл

· Транспортная категория

2

· Код ограничения проезда через туннели

D/E

· IMDG

· Limited quantities (LQ)

500 г

· Excepted quantities (EQ)

Code: E4

Maximum net quantity per inner packaging: 1 мл

Maximum net quantity per outer packaging: 500 мл

· UN "Model Regulation":

UN 1572 КИСЛОТА КАКОДИЛОВАЯ, 6.1, II

RU

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(Продолжение страницы 7)

15 Информация о национальном и международном законодательстве

- **Нормы безопасности, правила охраны труда и экологические нормативы или стандарты, действующие для вещества или смеси**
Отсутствует какая-либо соответствующая информация.
- **Реестр евразийской промышленной продукции** Данное вещество указано в списке.
- **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**



GHS06 GHS08

- **Сигнальное слово** Опасно
- **Предупреждения об опасности**
Смертельно при проглатывании, при контакте с кожей или при вдыхании.
Предположительно вызывает рак.
- **Меры предосторожности**
ПРИ ПРОГЛАТЫВАНИИ: Немедленно обратиться в ТОКСИКОЛОГИЧЕСКИЙ ЦЕНТР/к врачу.
Прополоскать рот.
Принять срочные специальные меры (см. на этом маркировочном знаке).
Немедленно снять загрязненную одежду и промыть ее перед повторным использованием.
Хранить под замком.
Утилизировать содержимое / тару в соответствии с местными / региональными / национальными / международными предписаниями.
- **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)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Острая токсичность 2: Acute toxicity – Category 2
Канцерогенность 2: Carcinogenicity – Category 2

Ficha de datos de seguridad

según 1907/2006/CE, Artículo 31

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SECCIÓN 1: Identificación de la sustancia o la mezcla y de la sociedad o la empresa

· 1.1 Identificador del producto

- **Nombre comercial:** ácido dimetilarsinico
- **Número del artículo:** 12200, 12201, 12201-1KG, 12201-SP
- **Número CAS:**
75-60-5
- **Número CE:**
200-883-4

- **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**



GHS06 calavera y tibias cruzadas

Acute Tox. 2 H300 Mortal en caso de ingestión.

Acute Tox. 1 H310 Mortal en contacto con la piel.

Acute Tox. 1 H330 Mortal en caso de inhalación.



GHS08 peligro para la salud

Carc. 2 H351 Se sospecha que provoca cáncer.

· 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.

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· **Pictogramas de peligro**

GHS06 GHS08

· **Palabra de advertencia Peligro**· **Indicaciones de peligro**

H300+H310+H330 Mortal en caso de ingestión, contacto con la piel o inhalación.

H351 Se sospecha que provoca cáncer.

· **Consejos de prudencia**

P301+P310 EN CASO DE INGESTIÓN: Llamar inmediatamente a un CENTRO DE TOXICOLOGÍA/médico.

P330 Enjuagarse la boca.

P320 Se necesita urgentemente un tratamiento específico (ver en esta etiqueta).

P361+P364 Quitar inmediatamente todas las prendas contaminadas y lavarlas antes de volver a usarlas.

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**

75-60-5 ácido dimetilarsínico

· **Número(s) de identificación**· **Número CE:** 200-883-4

SECCIÓN 4: Primeros auxilios

· **4.1 Descripción de los primeros auxilios**· **Instrucciones generales:**

Quitarse de inmediato toda prenda contaminada con el producto.

Antes de quitarse la protección respiratoria, quítese la ropa contaminada.

En caso de respiración irregular o apnea (paro respiratorio), hágase la respiración artificial.

· **En caso de inhalación del producto:**

Suministrar aire fresco u oxígeno; solicitar ayuda médica.

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 y consultar un médico.

· **En caso de ingestión:** No provocar el vómito y solicitar asistencia médica inmediata.· **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.

ES

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SECCIÓN 5: Medidas de lucha contra incendios

- **5.1 Medios de extinción**
- **Sustancias extintoras apropiadas:** Combatir los incendios con medidas adaptados al ambiente circundante.
- **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:** Colocarse la protección respiratoria.

SECCIÓN 6: Medidas en caso de vertido accidental

- **6.1 Precauciones personales, equipo de protección y procedimientos de emergencia** No es necesario.
- **6.2 Precauciones relativas al medio ambiente:**
Evitar que penetre en la canalización /aguas de superficie /agua subterráneas.
- **6.3 Métodos y material de contención y de limpieza:**
Desechar el material contaminado como vertido según item 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**
Asegurar suficiente ventilación /aspiración en el puesto de trabajo.
Abrir y manejar el recipiente con cuidado.
- **Prevención de incendios y explosiones:** Tener preparados los aparatos respiratorios.
- **7.2 Condiciones de almacenamiento seguro, incluidas posibles incompatibilidades**
- **Almacenamiento:**
- **Exigencias con respecto al almacén y los recipientes:** No se requieren medidas especiales.
- **Normas en caso de un almacenamiento conjunto:** No es necesario.
- **Indicaciones adicionales sobre las condiciones de almacenamiento:**
Mantener el recipiente cerrado herméticamente.
- **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:** Nulo.
- **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.

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· **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.

· **Protección de ojos:** No es necesario.

SECCIÓN 9: Propiedades físicas y químicas

· **9.1 Información sobre propiedades físicas y químicas básicas**

· **Datos generales**

· **Aspecto:**

Forma: Cristalino

Color: Blanco

· **Olor:** Débil, característico

· **Umbral olfativo:** No determinado.

· **valor pH:** No determinado.

· **Cambio de estado**

Punto de fusión/punto de congelación: 192-198 °C

Punto inicial de ebullición e intervalo de ebullición: 250 °C

· **Punto de inflamación:** No aplicable.

· **Inflamabilidad (sólido, gas):** No aplicable.

· **Temperatura de descomposición:** No determinado.

· **Temperatura de auto-inflamación:** No determinado.

· **Propiedades explosivas:** El producto no es explosivo.

· **Límites de explosión:**

Inferior: No determinado.

Superior: No determinado.

· **Presión de vapor:** No determinado.

· **Densidad:** Indeterminado.

· **Densidad relativa** No determinado.

· **Densidad de vapor** No determinado.

· **Tasa de evaporación:** No aplicable.

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· Solubilidad en / miscibilidad con agua:	No determinado.
· Coeficiente de reparto: n-octanol/agua:	No determinado.
· Viscosidad: Dinámica:	No determinado.
Cinemática:	No determinado.
· 9.2 Otros datos	No existen más datos relevantes disponibles.

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
Mortal en caso de ingestión, contacto con la piel o inhalación.
- Efecto estimulante primario:
- Corrosión o irritación cutáneas A la vista de los datos disponibles, no se cumplen los criterios de clasificación.
- Lesiones o irritación ocular graves
A la vista de los datos disponibles, no se cumplen los criterios de clasificación.
- 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
Se sospecha que provoca 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
A la vista de los datos disponibles, no se cumplen los criterios de clasificación.
- 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.

(se continua en página 6)

Ficha de datos de seguridad

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Nombre comercial: ácido dimetilar sinico

(se continua en página 5)

- **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.
- **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.

SECCIÓN 14: Información relativa al transporte

- **14.1 Número ONU**
- **ADR, IMDG, IATA** UN1572
- **14.2 Designación oficial de transporte de las Naciones Unidas**
- **ADR** 1572 ÁCIDO CACODÍLICO
- **IMDG, IATA** CACODYLIC ACID
- **14.3 Clase(s) de peligro para el transporte**
- **ADR, IMDG, IATA**
-
- **Clase** 6.1 Materias tóxicas
- **Etiqueta** 6.1
- **14.4 Grupo de embalaje**
- **ADR, IMDG, IATA** II
- **14.5 Peligros para el medio ambiente:** No aplicable.
- **14.6 Precauciones particulares para los usuarios** Atención: Materias tóxicas
- **Número de identificación de peligro (Número Kemler):** 60
- **Número EMS:** 6.1-04
- **Segregation groups** (SGG1) Acids
- **Stowage Category** E
- **Segregation Code** SG35 Stow "separated from" SGG1-acids
 SG36 Stow "separated from" SGG18-alkalis.
 SG49 Stow "separated from" SGG6-cyanides

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- | | |
|---|--|
| · 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) | 500 g |
| · Cantidades exceptuadas (EQ) | Código: E4
Cantidad neta máxima por envase interior: 1 ml
Cantidad neta máxima por embalaje exterior: 500 ml |
| · Categoría de transporte | 2 |
| · Código de restricción del túnel | D/E |
| · IMDG | |
| · Limited quantities (LQ) | 500 g |
| · Excepted quantities (EQ) | Code: E4
Maximum net quantity per inner packaging: 1 ml
Maximum net quantity per outer packaging: 500 ml |
| · "Reglamentación Modelo" de la UNECE: | UN 1572 ÁCIDO CACODÍLICO, 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 H1 TOXICIDAD AGUDA**
- **Cantidad umbral (toneladas) a efectos de aplicación de los requisitos de nivel inferior 5 t**
- **Cantidad umbral (toneladas) a efectos de aplicación de los requisitos de nivel superior 20 t**
- **Reglamento (UE) No 649/2012 Annex I Part 1**
- **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.
- **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.
- **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

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*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)**PBT: Persistent, Bioaccumulative and Toxic**vPvB: very Persistent and very Bioaccumulative**Acute Tox. 2: Toxicidad aguda – Categoría 2**Acute Tox. 1: Toxicidad aguda – Categoría 1**Carc. 2: Carcinogenicidad – Categoría 2*

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Phiếu an toàn hóa chất

theo điều Luật hóa chất số: 06/2007/QH12, Điều 29

Ngày in 2022.08.02

Sửa lại: 2022.08.02

Phần 1: Nhận dạng hóa chất và thông tin về nhà cung cấp

- **Phân loại sản phẩm**
- **Tên thương mại** Cacodylic Acid, Free Acid, Reagent, ACS
- **Mã giao dịch:** 12200, 12201, 12201-1KG, 12201-SP
- **Mã CAS:**
75-60-5
- **Số EC:**
200-883-4
- **Mục đích sử dụng và hạn chế khi sử dụng:** Không có thêm thông tin có liên quan.
- **Hướng dẫn sử dụng** Phòng thí nghiệm hóa chất
- **Thông tin chi tiết của các nhà cung cấp các bảng dữ liệu an toàn**
- **Nhà sản xuất / Nhà phân phối:**
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
- **Các thông tin chi tiết có thể tìm thấy ở:** Product safety department
- **Số điện thoại liên hệ trong trường hợp khẩn cấp**
ChemTrec 1-800-424-9300 Contract CCN7661
1-703-527-3887

Phần 2: Nhận dạng đặc tính nguy hiểm của hóa chất

- **Phân loại chất và hỗn hợp**



Đầu lâu xương chéo

Độc cấp tính – Miệng – Cấp 2 H300 Chết nếu nuốt phải
 Độc cấp tính – Da – Cấp 2 H310 Chết khi tiếp xúc với da
 Độc cấp tính – Hô hấp – Cấp 2 H330 Chết nếu hít phải



Nguy hại sức khỏe

Tác nhân gây ung thư – Cấp 2 H351 Nghi ngờ gây ung thư.

- **Các phần tử nhãn hiệu**
- **Các yếu tố trên nhãn GHS** Chất này được xếp loại và ghi nhãn theo quy định của GHS
- **Các hình biểu thị sự nguy hiểm**



GHS06 GHS08

- **Từ cảnh báo** Nguy hiểm
- **Các hướng dẫn về các nguy hiểm**
Gây tử vong nếu nuốt phải, tiếp xúc với da hoặc hít phải.
Nghi ngờ gây ung thư.
- **Các hướng dẫn an toàn**
Nếu nuốt phải gọi ngay trung tâm giải độc/ bác sĩ

(Xem tiếp ở trang 2)

Phiếu an toàn hóa chất

theo điều Luật hóa chất số: 06/2007/QH12, Điều 29

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Tên thương mại Cacodylic Acid, Free Acid, Reagent, ACS

(Xem tiếp ở trang 1)

Rửa miệng.
Sơ cứu khẩn cấp (xem trên nhãn mác).
Cởi bỏ tất cả quần áo nhiễm bẩn ngay lập tức và giặt sạch trước khi tái sử dụng
Nơi cất giữ được khóa lại
Vứt sản phẩm/vỏ hộp theo quy định của địa phương/khu vực/quốc gia/quốc tế.

- **Các dấu hiệu nguy hiểm khác:**
- **Kết quả của đánh giá PBT và vPvB Results**
- **PBT:** Không được áp dụng
- **vPvB:** Không được áp dụng

Phần 3: Thông tin về thành phần các chất

- **Đơn chất**
- **Mô tả mã CAS**
75-60-5 Cacodylic Acid, Free Acid, Reagent, ACS
- **Mã nhận biết**
- **Số EC:** 200-883-4

Phần 4: Biện pháp sơ cứu về y tế

- **Mô tả về các biện pháp sơ cứu**
- **Hướng dẫn chung:**
Ngay lập tức loại bỏ quần áo bị vấy bẩn bởi sản phẩm
Chỉ được tháo thiết bị hô hấp sau khi quần áo bảo hộ được cởi bỏ hoàn toàn
Trong trường hợp thở không đều hoặc ngừng hô hấp, phải hô hấp nhân tạo
- **Sau khi hít vào:**
Cung cấp không khí trong lành hoặc oxi, gọi bác sĩ
Trong trường hợp người bệnh bất tỉnh giữ bệnh nhân ở vị trí nằm nghiêng và chuyển đi.
- **Sau khi tiếp xúc với da:** Rửa ngay và thật sạch với nước và xà phòng
- **Sau khi tiếp xúc với mắt:** Nhẹ nhàng rửa mắt trong vài phút dưới vòi nước, sau đó xin tư vấn bác sĩ
- **Sau khi nuốt phải:** Không cố móc để nôn ra; gọi cấp cứu ngay.
- **Thông tin dành cho bác sĩ:**
- **Những triệu chứng và tác dụng cấp và chậm quan trọng nhất:**
Không có thông tin liên quan nào khác
- **Các chỉ dẫn về sự giúp đỡ tức thời của bác sĩ và trợ giúp đặc biệt**
Không có thêm thông tin liên quan

Phần 5: Biện pháp xử lý khi có hỏa hoạn

- **Các phương tiện chữa cháy**
- **Các giải pháp chữa cháy thích hợp**
Use Sử dụng phương pháp chữa cháy phù hợp với điều kiện môi trường xung quanh
- **Những nguy cơ gây cháy từ các chất hoặc hỗn hợp** Không có thêm thông tin liên quan
- **Hướng dẫn trong trường hợp chữa cháy**
- **Các thiết bị bảo vệ** Mặt nạ phòng độc

Phần 6: Biện pháp phòng ngừa, ứng phó khi có sự cố

- **Trang thiết bị bảo hộ và quy trình ứng phó sự cố** Không yêu cầu
- **Các cảnh báo về môi trường** Ngăn không cho tràn vào hệ thống nước thải, nước mặt hay nước ngầm
(Xem tiếp ở trang 3)

Phiếu an toàn hóa chất

theo điều Luật hóa chất số: 06/2007/QH12, Điều 29

Ngày in 2022.08.02

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Tên thương mại Cacodylic Acid, Free Acid, Reagent, ACS

(Xem tiếp ở trang 2)

- **Biện pháp, vật liệu vệ sinh sau khi xảy ra sự cố**
Loại bỏ vật liệu bị ô nhiễm theo quy định về chất thải tại mục 13
Đảm bảo thoáng khí
- **Liên hệ đến các phần khác**
Xem phần 7 để biết thông tin về xử lý an toàn
Xem phần 8 để biết thông tin và thiết bị bảo hộ cá nhân
Xem phần 13 để biết thông tin về xả thải

Phần 7: Yêu cầu về sử dụng, bảo quản

- **Xử lý**
- **Các biện pháp bảo vệ để xử lý an toàn**
Đảm bảo nơi làm việc thoáng khí
Mở và vận chuyển các bình chứa cẩn thận
- **Thông tin về các biện pháp chống cháy**, Luôn có sẵn thiết bị hỗ trợ hô hấp
- **Điều kiện cho việc lưu trữ an toàn, bao gồm cả sự không tương thích**
- **Lưu trữ:**
- **Yêu cầu đối với phòng chứa và dụng cụ chứa** Không có yêu cầu đặc biệt nào
- **Thông tin về lưu trữ đối với một cơ sở lưu trữ thông thường** Không yêu cầu
- **Thông tin thêm về điều kiện lưu trữ** Đậy kín bình chứa
- **Tác dụng của sản phẩm** Không có thêm thông tin liên quan

Phần 8: Kiểm soát phơi nhiễm/yêu cầu về thiết bị bảo vệ cá nhân

- **Thông tin thêm về thiết kế các phương tiện kỹ thuật** Không có thêm dữ liệu; xem mục 7
- **Các thông số kiểm soát**
- **Các thành phần với giá trị giới hạn cần được yêu cầu giám sát tại nơi làm việc** Không yêu cầu
- **Thông tin bổ sung** Danh sách có hiệu lực trong suốt quá trình thực hiện được sử dụng làm cơ sở
- **Kiểm soát các tình huống nguy hiểm**
- **Các thiết bị an toàn cá nhân**
- **Các biện pháp bảo vệ và vệ sinh tổng thể**
Tránh xa thực phẩm, đồ uống và đồ ăn cho vật nuôi
Loại bỏ ngay lập tức tất cả quần áo bị nhiễm bẩn
rửa tay trước giờ nghỉ và cuối giờ làm
Đề riêng quần áo bảo hộ
Tránh tiếp xúc với mắt và da
- **Bảo vệ đường hô hấp:**
Trong trường hợp tiếp xúc ít hoặc ô nhiễm ở mức độ thấp hãy sử dụng mặt nạ phòng độc. Trong trường hợp tiếp xúc nhiều và trong thời gian lâu thì phải sử dụng bình thở ôxi
- **Bảo vệ tay**



Găng tay bảo hộ

Chất liệu làm găng phải chống thấm đối với sản phẩm/chất/chế phẩm
Do không thấy các cuộc thử nghiệm nên không có khuyến cáo về chất liệu làm găng tay cho sản phẩm/
chế phẩm/hỗn hợp hóa chất
Chọn chất liệu găng theo số lần và thời gian sử dụng

(Xem tiếp ở trang 4)

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Tên thương mại Cacodylic Acid, Free Acid, Reagent, ACS

(Xem tiếp ở trang 3)

- **Chất liệu của găng tay**
Việc lựa chọn găng tay phù hợp không chỉ phụ thuộc vào chất liệu, mà còn về nhãn hiệu hơn và chất lượng và rất đa dạng về nhà sản xuất
- **Thời gian xâm nhập của găng tay vật liệu**
Việc phá vỡ chính xác qua thời gian đã được phát hiện bởi các nhà sản xuất găng tay bảo vệ và phải được giám sát
- **Bảo vệ mắt Eye** Không yêu cầu

Phần 9: Đặc tính lý, hóa của hóa chất

- Thông tin về tính chất vật lý và hóa học cơ bản
- Thông tin tổng quát
- **Diện mạo:**
 - Hình thức:: Tinh thể
 - Màu sắc: Trắng
- **Mùi:** Yếu, Tính chất
- **Ngưỡng mùi:** Không xác định.
- **Độ pH** Không xác định.
- **Thay đổi trong điều kiện**
 - Điểm tan / Phạm vi tan: 192-198 °C
 - Điểm sôi / Phạm vi sôi: 250 °C
- **Điểm cháy** Không thể áp dụng.
- **Tính dễ cháy (rắn, khí):** Không thể áp dụng.
- **Nhiệt độ phân hủy:** Không xác định.
- **Nhiệt độ tự cháy** Không xác định.
- **Nguy hiểm do cháy nổ:** Sản phẩm không có nguy cơ cháy nổ
- **Giới hạn nổ:**
 - Dưới: Không xác định
 - Trên: Không xác định.
- **Áp suất hóa hơi** Không xác định.
- **Mật độ:** Không xác định.
- **Mật độ tương đối:** Không xác định.
- **Mật độ của hơi:** Không xác định.
- **Tỷ lệ hóa hơi** Không thể áp dụng.
- **Độ hòa tan trong / Độ hòa trộn với:**
 - Nước: Không xác định.
- **Sự phân biệt hệ số (n-octanol / Nước)** Không xác định.
- **Độ nhớt:**
 - Động: Không xác định.
 - Tĩnh: Không xác định.
- **Thông tin khác:** Không có thông tin chi tiết tương ứng

VN

(Xem tiếp ở trang 5)

Phiếu an toàn hóa chất

theo điều Luật hóa chất số: 06/2007/QH12, Điều 29

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Tên thương mại Cacodylic Acid, Free Acid, Reagent, ACS

(Xem tiếp ở trang 4)

Phần 10: Mức ổn định và phản ứng của hóa chất

- **Khả năng phản ứng** Không có thêm thông tin liên quan
- **Tính ổn định**
- **Phân hủy nhiệt / Điều kiện cần tránh::** Không phân hủy nếu được sử dụng theo tiêu chuẩn.
- **Khả năng phản ứng nguy hiểm:** Chưa có phản ứng nguy hiểm nào được biết tới.
- **Các điều kiện cần tránh:** Không có thêm thông tin liên quan
- **Vật liệu không tương thích** Không có thêm thông tin liên quan.
- **Sản phẩm phân hủy nguy hiểm:** Chưa có sản phẩm phân hủy nào được biết đến.

Phần 11: Thông tin về độc tính

- **Thông tin về các hiệu ứng độc tính:**
- **Ngộ độc cấp tính:**
- **Hiệu ứng kích thích sơ cấp:**
- **Trên da** Không có tác dụng kích ứng.
- **Trên mắt:** Không có tác dụng kích ứng.
- **Độ nhạy cảm** Không có tác dụng mẫn cảm nào được biết tới.
- **Thông tin thêm về độc tính::** Nguy hiểm qua hấp thụ da.
- **Hiệu ứng CMR (Gây ung thư, gây biến dị, sinh sản độc tính)**
Tác nhân gây ung thư – Cấp 2

Phần 12: Thông tin về sinh thái

- **Độc tính**
- **Thủy sản độc tính:** Không có thêm thông tin liên quan.
- **Sự kiên trì và khả năng nhạc dần:** Không có thêm thông tin liên quan.
- **Hành vi trong các hệ thống môi trường:**
- **Khả năng tích lũy sinh học** Không có thêm thông tin liên quan.
- **Độ linh động trong đất** Không có thêm thông tin liên quan.
- **Bổ sung thông tin sinh thái:**
- **Ghi chú tổng quát:**
Độc hại cho nước loại 3 (quy định của Đức) (Đánh giá theo danh sách): rất độc hại cho nước.
Không để sản phẩm tiếp xúc với nước ngầm, nguồn nước hoặc hệ thống nước thải, kể cả với số lượng nhỏ.
Độc hại với nước uống kể cả với số lượng cực kỳ nhỏ thấm vào đất. .
- **Kết quả của đánh giá PBT và vPvB**
- **PBT PBT:** Không có khả năng ứng dụng.
- **vPvB vPvB:** Không có khả năng ứng dụng.
- **Các hiệu ứng bất lợi** Không có thêm thông tin liên quan.

Phần 13: Thông tin về thải bỏ

- **Phương pháp xử lý chất thải**
- **Khuyến nghị**
Không được xử lý cùng rác thải sinh hoạt. Không được bỏ sản phẩm vào hệ thống nước thải.

(Xem tiếp ở trang 6)

Phiếu an toàn hóa chất
theo điều Luật hóa chất số: 06/2007/QH12, Điều 29

Ngày in 2022.08.02


Sửa lại: 2022.08.02

Tên thương mại Cacodylic Acid, Free Acid, Reagent, ACS

(Xem tiếp ở trang 5)

- Bao bì bán
- **Khuyến nghị:** Việc xử lý phải thực hiện theo các quy định của chính quyền.

Phần 14: Thông tin khi vận chuyển

· Mã LHQ (UN)	
· ADR, IMDG, IATA	UN1572
· Tên vận chuyển theo quy ước của LHQ	
· ADR	1572 CACODYLIC ACID
· IMDG, IATA	CACODYLIC ACID
· vận chuyển các lớp học nguy hiểm	
· ADR, IMDG, IATA	
	
· lớp	6.1 Các chất độc.
· nhãn	6.1
· Nhóm bao bì	
· ADR, IMDG, IATA	II
· Các môi trường nguy hiểm:	Không có khả năng ứng dụng.
· Các biện pháp phòng ngừa đặc biệt cho người sử dụng:	Cảnh báo: Các chất độc.
· Mã nguy hiểm:	60
· Mã EMS:	6.1-04
· Các nhóm phân tách	(SGG1) Acids
· Stowage Category	E
· Segregation Code	SG35 Stow "separated from" SGG1-acids SG36 Stow "separated from" SGG18-alkalis. SG49 Stow "separated from" SGG6-cyanides
· Vận chuyển với số lượng lớn theo Phụ Lục II của MARPOL73/78 và mã IBC	Không có khả năng ứng dụng.
· Vận chuyển/ Thông tin thêm:	
· ADR	
· Số lượng giới hạn (LQ)	500 g
· Excepted quantities (EQ)	Code: E4 Maximum net quantity per inner packaging: 1 ml Maximum net quantity per outer packaging: 500 ml
· Danh mục vận chuyển	2
· Mã hạn chế đường hầm	D/E
· IMDG	
· Limited quantities (LQ)	500 g
· Excepted quantities (EQ)	Code: E4 Maximum net quantity per inner packaging: 1 ml Maximum net quantity per outer packaging: 500 ml

(Xem tiếp ở trang 7)

Phiếu an toàn hóa chất

theo điều Luật hóa chất số: 06/2007/QH12, Điều 29

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Tên thương mại Cacodylic Acid, Free Acid, Reagent, ACS

(Xem tiếp ở trang 6)

· **Mẫu chuẩn của LHQ:** UN 1572 CACODYLIC ACID, 6.1, II

Phần 15: Thông tin về pháp luật

- **An toàn, sức khỏe và các quy định, pháp luật về môi trường** cho các chất và hỗn hợp
Không có thêm thông tin liên quan
- **Kho hóa chất và chất hóa học của Philippin** Chất được liệt kê.
- **Lập kế hoạch cho thuốc và chất độc theo mẫu chuẩn S6, S7**
- **Danh mục hóa chất sản xuất, kinh doanh có điều kiện trong lĩnh vực công nghiệp - phụ lục I**
Chất không được liệt kê.
- **Danh mục hóa chất hạn chế sản xuất, kinh doanh trong lĩnh vực công nghiệp - phụ lục II**
Chất không được liệt kê.
- **Danh mục hóa chất nguy hiểm phải xây dựng kế hoạch phòng ngừa, ứng phó sự cố hóa chất - phụ lục IV - Ngưỡng khử độc hóa chất tồn trữ lớn nhất tại một thời điểm (kg)**
Chất không được liệt kê.
- **Danh mục hóa chất phải khai báo - phụ lục V** Chất không được liệt kê.
- **Các yếu tố trên nhãn GHS** Chất này được xếp loại và ghi nhãn theo quy định của GHS
- **Các hình biểu thị sự nguy hiểm**



GHS06 GHS08

- **Từ cảnh báo** Nguy hiểm
- **Các hướng dẫn về các nguy hiểm**
Gây tử vong nếu nuốt phải, tiếp xúc với da hoặc hít phải.
Nghỉ ngơi gây ung thư.
- **Các hướng dẫn an toàn**
Nếu nuốt phải gọi ngay trung tâm giải độc/ bác sĩ
Rửa miệng.
Sơ cứu khẩn cấp (xem trên nhãn mác).
Cởi bỏ tất cả quần áo nhiễm bẩn ngay lập tức và giặt sạch trước khi tái sử dụng
Nơi cất giữ được khóa lại
Vứt sản phẩm/vỏ hộp theo quy định của địa phương/khu vực/quốc gia/quốc tế.
- **Đánh giá an toàn hóa chất:** Đánh giá an toàn hóa chất chưa được tiến hành.

Phần 16: Các thông tin cần thiết khác

Thông tin này dựa trên kiến thức hiện nay của chúng tôi. Tuy nhiên, điều này không đảm bảo cho bất cứ tính chất cụ thể nào của sản phẩm và không thiết lập mối quan hệ hợp tác có giá trị pháp lý nào.

- **Liên hệ:**
- **Ngày tháng biên soạn phiếu:** 2022.08.02
- **Ngày tháng sửa đổi, bổ sung gần nhất:** 2022.08.02
- **Chữ viết tắt hoặc Viết tắt chữ cái đầu:**
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)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative

(Xem tiếp ở trang 8)

Phiếu an toàn hóa chất
theo điều Luật hóa chất số: 06/2007/QH12, Điều 29

Ngày in 2022.08.02

Sửa lại: 2022.08.02

Tên thương mại Cacodylic Acid, Free Acid, Reagent, ACS

Độc cấp tính – Miệng – Cấp 2: Acute toxicity – Category 2
Tác nhân gây ung thư – Cấp 2: Carcinogenicity – Category 2

(Xem tiếp ở trang 7)

VN