

# Safety Data Sheet

acc. to OSHA HCS

Printing date 05/13/2022

Reviewed on 05/13/2022

## 1 Identification

- **Product identifier**
- **Trade name:** Aniline-Alcohol Solution
- **Article number:** 26450-02
- **Application of the substance / the mixture** Laboratory chemicals
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Electron Microscopy Sciences  
1560 Industry Road  
USA-Hatfield, PA 19440  
Tel: 215-412-8400 Fax: 215-412-8450  
email: info@emsdiasum.com  
www.emsdiasum.com
- **Information department:** Product safety department
- **Emergency telephone number:**  
ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887

## 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

Substances and mixtures which, in contact with water, emit flammable gases 1

H260 In contact with water releases flammable gases, which may ignite spontaneously.



GHS08 Health hazard

Germ Cell Mutagenicity 2

H341 Suspected of causing genetic defects.

Carcinogenicity 1A

H350 May cause cancer.

Specific Target Organ Toxicity - Single Exposure 2

H371 May cause damage to the central nervous system and the visual organs.

Specific Target Organ Toxicity - Repeated Exposure 1

H372 Causes damage to organs through prolonged or repeated exposure.



GHS07

Eye Irritation 2A

H319 Causes serious eye irritation.

Sensitization - Skin 1

H317 May cause an allergic skin reaction.

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



GHS02



GHS07



GHS08

(Contd. on page 2)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 05/13/2022

Reviewed on 05/13/2022

**Trade name: Aniline-Alcohol Solution**

(Contd. of page 1)

· **Signal word** *Danger*

· **Hazard-determining components of labeling:**

*Ethyl alcohol*

*aniline*

*Methyl Alcohol*

· **Hazard statements**

*In contact with water releases flammable gases, which may ignite spontaneously.*

*Causes serious eye irritation.*

*May cause an allergic skin reaction.*

*Suspected of causing genetic defects.*

*May cause cancer.*

*May cause damage to the central nervous system and the visual organs.*

*Causes damage to organs through prolonged or repeated exposure.*

· **Precautionary statements**

*Obtain special instructions before use.*

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

*Do not allow contact with water.*

*Handle under inert gas. Protect from moisture.*

*Do not breathe dust/fume/gas/mist/vapors/spray.*

*Wash thoroughly after handling.*

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

*Contaminated work clothing must not be allowed out of the workplace.*

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

*If on skin: Wash with plenty of water.*

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

*Continue rinsing.*

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

*Get medical advice/attention if you feel unwell.*

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

*Specific treatment (see on this label).*

*Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages.*

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

*Wash contaminated clothing before reuse.*

*In case of fire: Use CO<sub>2</sub>, sand, extinguishing powder to extinguish.*

*Store in a dry place. Store in a closed container.*

*Store locked up.*

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

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



*Health = 2*

*Fire = 3*

*Reactivity = 2*

*The substance demonstrates unusual reactivity with water.*

· **HMIS-ratings (scale 0 - 4)**



*Health = \*2*

*Fire = 3*

*Reactivity = 2*

· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** *Not applicable.*

(Contd. on page 3)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 05/13/2022

Reviewed on 05/13/2022

Trade name: Aniline-Alcohol Solution

(Contd. of page 2)

· **vPvB:** Not applicable.

### 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

- **Dangerous components:**

64-17-5	Ethyl alcohol	>50-≤100%
67-56-1	Methyl Alcohol	>2.5-≤10%
62-53-3	aniline	≤2.5%

### 4 First-aid measures

- **Description of first aid measures**
- **General information:**  
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- **After inhalation:**  
Supply fresh air and to be sure call for a 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. If symptoms persist, consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **For safety reasons unsuitable extinguishing agents:** Water
- **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**  
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**  
Inform respective authorities in case of seepage into water course or sewage system.  
Dilute with plenty of water.  
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.

(Contd. on page 4)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 05/13/2022

Reviewed on 05/13/2022

**Trade name: Aniline-Alcohol Solution**

(Contd. of page 3)

- Ensure adequate ventilation.
- Do not flush with water or aqueous cleansing agents
- **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**

· <b>PAC-1:</b>		
64-17-5	Ethyl alcohol	1,800 ppm
67-56-1	Methyl Alcohol	530 ppm
62-53-3	aniline	8.0 ppm
· <b>PAC-2:</b>		
64-17-5	Ethyl alcohol	3300* ppm
67-56-1	Methyl Alcohol	2,100 ppm
62-53-3	aniline	12 ppm
· <b>PAC-3:</b>		
64-17-5	Ethyl alcohol	15000* ppm
67-56-1	Methyl Alcohol	7200* ppm
62-53-3	aniline	20 ppm

## 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
- Ensure good ventilation/exhaustion at the workplace.
- Prevent formation of aerosols.
- **Information about protection against explosions and fires:** Keep ignition sources away - Do not smoke.
- **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.
- Store in cool, dry conditions in well sealed receptacles.
- **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

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

· <b>Components with limit values that require monitoring at the workplace:</b>	
<b>64-17-5 Ethyl alcohol</b>	
PEL	Long-term value: 1900 mg/m <sup>3</sup> , 1000 ppm
REL	Long-term value: 1900 mg/m <sup>3</sup> , 1000 ppm
TLV	Short-term value: 1000 ppm
A3	

(Contd. on page 5)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 05/13/2022

Reviewed on 05/13/2022

Trade name: Aniline-Alcohol Solution

(Contd. of page 4)

**67-56-1 Methyl Alcohol**PEL Long-term value: 260 mg/m<sup>3</sup>, 200 ppmREL Short-term value: 325 mg/m<sup>3</sup>, 250 ppm  
Long-term value: 260 mg/m<sup>3</sup>, 200 ppm  
SkinTLV Short-term value: 250 ppm  
Long-term value: 200 ppm  
Skin; BEI**62-53-3 aniline**PEL Long-term value: 19 mg/m<sup>3</sup>, 5 ppm  
and Homologues; Skin

REL And Homologues; See Pocket Guide App. A

TLV Long-term value: 2 ppm  
Skin; BEI, A3**· Ingredients with biological limit values:****67-56-1 Methyl Alcohol**BEI 15 mg/L  
Medium: urine  
Time: end of shift  
Parameter: Methanol (background, nonspecific)**62-53-3 aniline**BEI 0.5 mg/L  
Medium: urine  
Time: end of shift  
Parameter: Aniline (with hydrolysis)**· 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.  
Avoid contact with the eyes.  
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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

(Contd. on page 6)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 05/13/2022

Reviewed on 05/13/2022

Trade name: Aniline-Alcohol Solution

(Contd. of page 5)

- **Penetration time of glove material**

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

- **Eye protection:**



Tightly sealed goggles

## 9 Physical and chemical properties

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

- **General Information**

- **Appearance:**

<b>Form:</b>	Liquid
<b>Color:</b>	Clear
<b>Odor:</b>	Alcohol-like
<b>Odor threshold:</b>	Not determined.

- **pH-value at 20 °C (68 °F):** 6.5-9

- **Change in condition**

<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	100 °C (212 °F)

- **Flash point:** Not applicable.

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

- **Decomposition temperature:** Not determined.

- **Auto igniting:** Spontaneously flammable in air.

- **Danger of explosion:** Not determined.

- **Explosion limits:**

<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.

- **Vapor pressure:** Not determined.

- **Density:** Not determined.

- **Relative density** Not determined.

- **Vapor density** Not determined.

- **Evaporation rate** Not determined.

- **Solubility in / Miscibility with**

**Water:** Fully miscible.

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

- **Viscosity:**

**Dynamic:** Not determined.

**Kinematic:** Not determined.

- **Solvent content:**

**Organic solvents:** 89.5 %

**Water:** 9.5 %

(Contd. on page 7)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 05/13/2022

Reviewed on 05/13/2022

Trade name: Aniline-Alcohol Solution

(Contd. of page 6)

<b>VOC content:</b>	89.50 % 989.0 g/l / 8.25 lb/gal
<b>Solids content:</b>	0.0 %
<b>Other information</b>	No further relevant information available.

## 10 Stability and reactivity

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

## 11 Toxicological information

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

· <b>LD/LC50 values that are relevant for classification:</b>		
<b>67-56-1 Methyl Alcohol</b>		
Oral	LD50	5,628 mg/kg (rat)
Dermal	LD50	15,800 mg/kg (rabbit)
<b>62-53-3 aniline</b>		
Oral	LD50	250 mg/kg (rat)
Dermal	LD50	820 mg/kg (rabbit)
Inhalative	LC50/4 h	175 mg/l (mouse)

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** Irritating effect.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**  
The product shows the following dangers according to internally approved calculation methods for preparations:  
Harmful  
Irritant

- **Carcinogenic categories**

· <b>IARC (International Agency for Research on Cancer)</b>		
64-17-5	Ethyl alcohol	I
62-53-3	aniline	2A

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety Health Administration)**

None of the ingredients is listed.

(Contd. on page 8)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 05/13/2022

Reviewed on 05/13/2022

Trade name: Aniline-Alcohol Solution

(Contd. of page 7)


## 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.
- **Ecotoxicological effects:**
- **Remark:** Harmful to fish
- **Additional ecological information:**
- **General notes:**  
*Water hazard class 1 (Self-assessment): slightly hazardous for water*  
*Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.*  
*Harmful to aquatic organisms*
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

## 13 Disposal considerations

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

## 14 Transport information

- |                                                                                     |                                               |
|-------------------------------------------------------------------------------------|-----------------------------------------------|
| <b>UN-Number</b>                                                                    | UN2929                                        |
| <b>DOT, ADR, IMDG, IATA</b>                                                         |                                               |
| <b>UN proper shipping name</b>                                                      | Toxic liquids, flammable, organic, n.o.s.     |
| <b>DOT</b>                                                                          | 2929 TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S. |
| <b>ADR</b>                                                                          | TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S.      |
| <b>IMDG, IATA</b>                                                                   | TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S.      |
| <b>Transport hazard class(es)</b>                                                   |                                               |
| <b>DOT</b>                                                                          |                                               |
|  |                                               |
| <b>Class</b>                                                                        | 6.1 Toxic substances                          |

(Contd. on page 9)



# Safety Data Sheet







acc. to OSHA HCS

Printing date 05/13/2022

Reviewed on 05/13/2022

Trade name: Aniline-Alcohol Solution

(Contd. of page 8)

· <b>Label</b>	6.1, 3
· <b>ADR</b>	
 	
· <b>Class</b>	6.1 Toxic substances
· <b>Label</b>	6.1+3
· <b>IMDG</b>	
 	
· <b>Class</b>	6.1 Toxic substances
· <b>Label</b>	6.1/3
· <b>IATA</b>	
 	
· <b>Class</b>	6.1 Toxic substances
· <b>Label</b>	6.1 (3)
· <b>Packing group</b>	
· <b>DOT, ADR, IMDG, IATA</b>	II
· <b>Environmental hazards:</b>	Not applicable.
· <b>Special precautions for user</b>	Warning: Toxic substances
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>UN "Model Regulation":</b>	UN 2929 TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S., 6.1 (3), 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):**

62-53-3 | aniline

· **Section 313 (Specific toxic chemical listings):**

67-56-1 | Methyl Alcohol

62-53-3 | aniline

· **TSCA (Toxic Substances Control Act):**

All components have the value ACTIVE.

(Contd. on page 10)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 05/13/2022

Reviewed on 05/13/2022

Trade name: Aniline-Alcohol Solution

(Contd. of page 9)

· **Hazardous Air Pollutants**

67-56-1 Methyl Alcohol

62-53-3 aniline

· **Proposition 65**

· **Chemicals known to cause cancer:**

62-53-3 aniline

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

64-17-5 Ethyl alcohol

67-56-1 Methyl Alcohol

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

62-53-3 aniline

B2

· **TLV (Threshold Limit Value)**

64-17-5 Ethyl alcohol

A3

62-53-3 aniline

A3

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

62-53-3 aniline

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

· **Hazard pictograms**



GHS02

GHS07

GHS08

· **Signal word** Danger

· **Hazard-determining components of labeling:**

Ethyl alcohol

aniline

Methyl Alcohol

· **Hazard statements**

In contact with water releases flammable gases, which may ignite spontaneously.

Causes serious eye irritation.

May cause an allergic skin reaction.

Suspected of causing genetic defects.

May cause cancer.

May cause damage to the central nervous system and the visual organs.

Causes damage to organs through prolonged or repeated exposure.

· **Precautionary statements**

Obtain special instructions before use.

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

Do not allow contact with water.

Handle under inert gas. Protect from moisture.

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

(Contd. on page 11)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 05/13/2022

Reviewed on 05/13/2022

**Trade name: Aniline-Alcohol Solution**

(Contd. of page 10)

Wash thoroughly after handling.  
 Do not eat, drink or smoke when using this product.  
 Contaminated work clothing must not be allowed out of the workplace.  
 Wear protective gloves/protective clothing/eye protection/face protection.  
 If on skin: Wash with plenty of water.  
 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.  
 Continue rinsing.  
 IF exposed or concerned: Get medical advice/attention.  
 Get medical advice/attention if you feel unwell.  
 If skin irritation or rash occurs: Get medical advice/attention.  
 Specific treatment (see on this label).  
 Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages.  
 If eye irritation persists: Get medical advice/attention.  
 Wash contaminated clothing before reuse.  
 In case of fire: Use CO<sub>2</sub>, sand, extinguishing powder to extinguish.  
 Store in a dry place. Store in a closed container.  
 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** 05/13/2022 / -

· **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

ELINCS: European List of Notified Chemical Substances

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

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety **Health**

**TLV: Threshold Limit Value**

**PEL: Permissible Exposure Limit**

**REL: Recommended Exposure Limit**

**BEI: Biological Exposure Limit**

**Substances and mixtures which, in contact with water, emit flammable gases 1: Substances and mixtures which in contact with water emit flammable gases – Category 1**

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

**Sensitization - Skin 1: Skin sensitisation – Category 1**

**Germ Cell Mutagenicity 2: Germ cell mutagenicity – Category 2**

**Carcinogenicity 1A: Carcinogenicity – Category 1A**

**Specific Target Organ Toxicity - Single Exposure 2: Specific target organ toxicity (single exposure) – Category 2**

**Specific Target Organ Toxicity - Repeated Exposure 1: Specific target organ toxicity (repeated exposure) – Category 1**

# Safety Data Sheet

## according to WHS Regulations

Printing date 13.05.2022

Revision: 13.05.2022

### 1 Identification

- **Product identifier**
- **Trade name:** Aniline-Alcohol Solution
- **Article number:** 26450-02
- **Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Laboratory chemicals
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Electron Microscopy Sciences  
1560 Industry Road  
USA-Hatfield, PA 19440  
Tel: 215-412-8400 Fax: 215-412-8450  
email: [info@emsdiasum.com](mailto:info@emsdiasum.com)  
[www.emsdiasum.com](http://www.emsdiasum.com)
- ProSciTech Pty Ltd  
11 Carlton Street, Kirwan QLD 4817 Australia  
Telephone Number: (07) 4773 9444 - 8:30am - 5:00pm, Monday to Friday (excluding Public Holidays)  
Emergency Contact: (07) 4773 9444 - 8:30am - 5:00pm, Monday to Friday (excluding Public Holidays)  
Website: [ems.proscitech.com](http://ems.proscitech.com)
- Emgrid Australia Pty. Ltd.  
P.O. Box 118  
The Patch VIC 3792  
Australia  
Tel: 03 9752 1785  
Fax: 03 9752 1784  
Website: [www.emgrid.com.au](http://www.emgrid.com.au)
- **Further information obtainable from:** Product safety department
- **Emergency telephone number:**  
ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887

### 2 Hazard(s) Identification

- **Classification of the substance or mixture**



GHS02 flame

Water-react. 1    H260 In contact with water releases flammable gases which may ignite spontaneously.



GHS08 health hazard

Muta. 2            H341 Suspected of causing genetic defects.  
Carc. 1A           H350 May cause cancer.  
STOT SE 2        H371 May cause damage to the central nervous system and the visual organs.  
STOT RE 1        H372 Causes damage to organs through prolonged or repeated exposure.



GHS07

(Contd. on page 2)

## Safety Data Sheet according to WHS Regulations

Printing date 13.05.2022

Revision: 13.05.2022

**Trade name: Aniline-Alcohol Solution**

(Contd. of page 1)

*Eye Irritation 2A H319 Causes serious eye irritation.*

*Skin Sens. 1 H317 May cause an allergic skin reaction.*

· **Label elements**

· **GHS label elements** The product is classified and labelled according to the Globally Harmonised System (GHS).

· **Hazard pictograms**



GHS02    GHS07    GHS08

· **Signal word** *Danger*

· **Hazard-determining components of labelling:**

*Ethyl alcohol*

*aniline*

*Methyl Alcohol*

· **Hazard statements**

*In contact with water releases flammable gases which may ignite spontaneously.*

*Causes serious eye irritation.*

*May cause an allergic skin reaction.*

*Suspected of causing genetic defects.*

*May cause cancer.*

*May cause damage to the central nervous system and the visual organs.*

*Causes damage to organs through prolonged or repeated exposure.*

· **Precautionary statements**

*Obtain special instructions before use.*

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

*Keep away from any possible contact with water, because of violent reaction and possible flash fire.*

*Handle and store contents under inert gas. Protect from moisture.*

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

*Wash thoroughly after handling.*

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

*Contaminated work clothing should not be allowed out of the workplace.*

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

*IF ON SKIN: Wash with plenty of water.*

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

*Continue rinsing.*

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

*Get medical advice/attention if you feel unwell.*

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

*Specific treatment (see on this label).*

*Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages.*

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

*Wash contaminated clothing before reuse.*

*In case of fire: Use CO<sub>2</sub>, sand, extinguishing powder for extinction.*

*Store in a dry place. Store in a closed container.*

*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.

(Contd. on page 3)

# Safety Data Sheet

## according to WHS Regulations

Printing date 13.05.2022

Revision: 13.05.2022

Trade name: Aniline-Alcohol Solution

(Contd. of page 2)

· **vPvB:** Not applicable.

### 3 Composition and Information on Ingredients

- **Chemical characterisation:** Mixtures
- **Description:** Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

64-17-5	Ethyl alcohol	>50-≤100%
67-56-1	Methyl Alcohol	>2.5-≤10%
62-53-3	aniline	≤2.5%

- **SVHC**

64-17-5	Ethyl alcohol
67-56-1	Methyl Alcohol

- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

### 4 First Aid Measures

- **Description of first aid measures**
- **General information:**  
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- **After inhalation:**  
Supply fresh air and to be sure call for a 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. If symptoms persist, consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.
- **Information for doctor:**  
· **Most important symptoms and effects, both acute and delayed** No further relevant information available.  
· **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire Fighting Measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **For safety reasons unsuitable extinguishing agents:** Water
- **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**  
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**  
Inform respective authorities in case of seepage into water course or sewage system.

(Contd. on page 4)

## Safety Data Sheet according to WHS Regulations

Printing date 13.05.2022

Revision: 13.05.2022

**Trade name: Aniline-Alcohol Solution**

(Contd. of page 3)

*Dilute with plenty of water.*

*Do not allow to enter sewers/ surface or ground water.*

**· Methods and material for containment and cleaning up:**

*Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).*

*Dispose contaminated material as waste according to item 13.*

*Ensure adequate ventilation.*

*Do not flush with water or aqueous cleansing agents*

**· 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.*

*Prevent formation of aerosols.*

**· Information about fire - and explosion protection:** *Keep ignition sources away - Do not smoke.*

**· 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.*

*Store in cool, dry conditions in well sealed receptacles.*

**· Specific end use(s)** *No further relevant information available.*

### 8 Exposure controls and personal protection

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

**· Control parameters**

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

**64-17-5 Ethyl alcohol**

WES Long-term value: 1880 mg/m<sup>3</sup>, 1000 ppm

**67-56-1 Methyl Alcohol**

WES Short-term value: 328 mg/m<sup>3</sup>, 250 ppm

Long-term value: 262 mg/m<sup>3</sup>, 200 ppm

Sk

**62-53-3 aniline**

WES Long-term value: 7.6 mg/m<sup>3</sup>, 2 ppm

Sk, Sen

**· 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.*

(Contd. on page 5)

## Safety Data Sheet according to WHS Regulations

Printing date 13.05.2022

Revision: 13.05.2022

Trade name: Aniline-Alcohol Solution

(Contd. of page 4)

Avoid contact with the eyes.

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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

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

· **Eye protection:**



Tightly sealed goggles

### 9 Physical and Chemical Properties

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

· **General Information**

· **Appearance:**

· <b>Form:</b>	Liquid
· <b>Colour:</b>	Clear
· <b>Odour:</b>	Alcohol-like
· <b>Odour threshold:</b>	Not determined.

· **pH-value at 20 °C:** 6.5-9

· **Change in condition**

· <b>Melting point/freezing point:</b>	Undetermined.
· <b>Initial boiling point and boiling range:</b>	100 °C

· **Flash point:** Not applicable.

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

· **Decomposition temperature:** Not determined.

· **Auto-ignition temperature:** Spontaneously flammable in air.

· **Explosive properties:** Not determined.

· **Explosion limits:**

· **Lower:** Not determined.

(Contd. on page 6)



# Safety Data Sheet

## according to WHS Regulations

Printing date 13.05.2022

Revision: 13.05.2022

Trade name: Aniline-Alcohol Solution

(Contd. of page 5)

<b>Upper:</b>	Not determined.
· <b>Vapour pressure:</b>	Not determined.
· <b>Density:</b>	Not determined.
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with water:</b>	Fully miscible.
· <b>Partition coefficient: n-octanol/water:</b>	Not determined.
· <b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
· <b>Solvent content:</b>	
<b>Organic solvents:</b>	89.5 %
<b>Water:</b>	9.5 %
<b>VOC (EC)</b>	89.50 %
<b>Solids content:</b>	0.0 %
· <b>Other information</b>	No further relevant information available.

### 10 Stability and Reactivity

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

### 11 Toxicological Information

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

· <b>LD/LC50 values relevant for classification:</b>		
<b>67-56-1 Methyl Alcohol</b>		
Oral	LD50	5,628 mg/kg (rat)
Dermal	LD50	15,800 mg/kg (rabbit)
<b>62-53-3 aniline</b>		
Oral	LD50	250 mg/kg (rat)
Dermal	LD50	820 mg/kg (rabbit)
Inhalative	LC50/4 h	175 mg/l (mouse)

- **Primary irritant effect:**
- **Skin corrosion/irritation** No irritant effect.
- **Serious eye damage/irritation** Irritating effect.
- **Respiratory or skin sensitisation** Sensitisation possible through skin contact.

(Contd. on page 7)

# Safety Data Sheet

## according to WHS Regulations

Printing date 13.05.2022

Revision: 13.05.2022

Trade name: Aniline-Alcohol Solution

(Contd. of page 6)

· **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Harmful

Irritant

· **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

Muta. 2, Carc. 1A

### 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.

· **Ecotoxicological effects:**

· **Remark:** Harmful to fish

· **Additional ecological information:**

· **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Harmful to aquatic organisms

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

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

### 13 Disposal considerations

· **Waste treatment methods**

· **Recommendation**

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

· **Uncleaned packaging:**

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

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

### 14 Transport information

· **UN-Number**

· **ADG, IMDG, IATA**

UN2929

· **UN proper shipping name**

· **ADG**

· **IMDG, IATA**

2929 TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S.

TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S.

(Contd. on page 8)

AU

# Safety Data Sheet

according to WHS Regulations

Printing date 13.05.2022

Revision: 13.05.2022

Trade name: Aniline-Alcohol Solution

(Contd. of page 7)

· **Transport hazard class(es)**· **ADG**· **Class**

6.1 Toxic substances.

· **Label**

6.1+3

· **IMDG**· **Class**

6.1 Toxic substances.

· **Label**

6.1/3

· **IATA**· **Class**

6.1 Toxic substances.

· **Label**

6.1 (3)

· **Packing group**· **ADG, IMDG, IATA**

II

· **Environmental hazards:**

Not applicable.

· **Special precautions for user**

Warning: Toxic substances.

· **Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable.

· **UN "Model Regulation":**

UN 2929 TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S., 6.1 (3), II

## 15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**· **Australian Inventory of Industrial Chemicals**

All ingredients are listed.

· **Standard for the Uniform Scheduling of Medicines and Poisons**

67-56-1 Methyl Alcohol

S5, S6

62-53-3 aniline

S6

· **Australia: Priority Existing Chemicals**

None of the ingredients is listed.

· **GHS label elements** The product is classified and labelled according to the Globally Harmonised System (GHS).

(Contd. on page 9)

## Safety Data Sheet according to WHS Regulations

Printing date 13.05.2022

Revision: 13.05.2022

Trade name: Aniline-Alcohol Solution

(Contd. of page 8)

· **Hazard pictograms**· **Signal word** *Danger*· **Hazard-determining components of labelling:***Ethyl alcohol**aniline**Methyl Alcohol*· **Hazard statements***In contact with water releases flammable gases which may ignite spontaneously.**Causes serious eye irritation.**May cause an allergic skin reaction.**Suspected of causing genetic defects.**May cause cancer.**May cause damage to the central nervous system and the visual organs.**Causes damage to organs through prolonged or repeated exposure.*· **Precautionary statements***Obtain special instructions before use.**Do not handle until all safety precautions have been read and understood.**Keep away from any possible contact with water, because of violent reaction and possible flash fire.**Handle and store contents under inert gas. Protect from moisture.**Do not breathe dust/fume/gas/mist/vapours/spray.**Wash thoroughly after handling.**Do not eat, drink or smoke when using this product.**Contaminated work clothing should not be allowed out of the workplace.**Wear protective gloves/protective clothing/eye protection/face protection.**IF ON SKIN: Wash with plenty of water.**IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.**Continue rinsing.**IF exposed or concerned: Get medical advice/attention.**Get medical advice/attention if you feel unwell.**If skin irritation or rash occurs: Get medical advice/attention.**Specific treatment (see on this label).**Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages.**If eye irritation persists: Get medical advice/attention.**Wash contaminated clothing before reuse.**In case of fire: Use CO<sub>2</sub>, sand, extinguishing powder for extinction.**Store in a dry place. Store in a closed container.**Store locked up.**Dispose of contents/container in accordance with local/regional/national/international regulations.*· **Directive 2012/18/EU**· **Named dangerous substances - ANNEX I** *None of the ingredients is listed.*· **Seveso category O<sub>2</sub>** *Substances and mixtures which in contact with water emit flammable gases*· **Qualifying quantity (tonnes) for the application of lower-tier requirements** *100 t*· **Qualifying quantity (tonnes) for the application of upper-tier requirements** *500 t*

(Contd. on page 10)

# Safety Data Sheet

## according to WHS Regulations

Printing date 13.05.2022

Revision: 13.05.2022

**Trade name: Aniline-Alcohol Solution**

(Contd. of page 9)

· **National regulations:**

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

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

64-17-5	Ethyl alcohol
67-56-1	Methyl Alcohol

· **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

ELINCS: European List of Notified Chemical Substances

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

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Water-react. 1: Substances and mixtures which in contact with water emit flammable gases – Category 1

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

Skin Sens. 1: Skin sensitisation – Category 1

Muta. 2: Germ cell mutagenicity – Category 2

Carc. 1A: Carcinogenicity – Category 1A

STOT SE 2: Specific target organ toxicity (single exposure) – Category 2

STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

# Safety Data Sheet

## according to HPR, Schedule 1

Printing date 05/13/2022

Reviewed on 05/13/2022

### 1 Identification

- **Product identifier**
- **Trade name:** Aniline-Alcohol Solution
- **Article number:** 26450-02
- **Application of the substance / the mixture** Laboratory chemicals
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Electron Microscopy Sciences  
1560 Industry Road  
USA-Hatfield, PA 19440  
Tel: 215-412-8400 Fax: 215-412-8450  
email: info@emsdiasum.com  
www.emsdiasum.com
- **Information department:** Product safety department
- **Emergency telephone number:**  
ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887

### 2 Hazard identification

- **Classification of the substance or mixture**



GHS02 Flame

Substances and Mixtures Which, in Contact with Water, Emit Flammable Gases - Category 1      H260 In contact with water releases flammable gases which may ignite spontaneously.



GHS08 Health hazard

Germ Cell Mutagenicity - Category 2      H341 Suspected of causing genetic defects.  
Carcinogenicity - Category 1A      H350 May cause cancer.  
Specific Target Organ Toxicity - Single Exposure - Category 2      H371 May cause damage to the central nervous system and the visual organs.  
Specific Target Organ Toxicity - Repeated Exposure - Category 1      H372 Causes damage to organs through prolonged or repeated exposure.



GHS07

Eye Irritation - Category 2A      H319 Causes serious eye irritation.  
Skin Sensitizer - Category 1      H317 May cause an allergic skin reaction.

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



GHS02



GHS07



GHS08

(Contd. on page 2)

# Safety Data Sheet

## according to HPR, Schedule 1

Printing date 05/13/2022

Reviewed on 05/13/2022

Trade name: Aniline-Alcohol Solution

(Contd. of page 1)

· **Signal word** *Danger*

· **Hazard-determining components of labeling:**

*Ethyl alcohol**aniline**Methyl Alcohol*

· **Hazard statements**

*In contact with water releases flammable gases which may ignite spontaneously.**Causes serious eye irritation.**May cause an allergic skin reaction.**Suspected of causing genetic defects.**May cause cancer.**May cause damage to the central nervous system and the visual organs.**Causes damage to organs through prolonged or repeated exposure.*

· **Precautionary statements**

*Obtain special instructions before use.**Do not handle until all safety precautions have been read and understood.**Do not allow contact with water.**Handle and store contents under inert gas. Protect from moisture.**Do not breathe dust/fume/gas/mist/vapours/spray.**Wash thoroughly after handling.**Do not eat, drink or smoke when using this product.**Contaminated work clothing should not be allowed out of the workplace.**Wear protective gloves/protective clothing/eye protection/face protection.**IF ON SKIN: Brush off loose particles from skin. Immerse in cool water.**If on skin: Wash with plenty of water.**IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.**Continue rinsing.**IF exposed or concerned: Get medical advice/attention.**Get medical advice/attention if you feel unwell.**Take off contaminated clothing and wash it before reuse.**If skin irritation or rash occurs: Get medical advice/attention.**Specific treatment (see on this label).**If eye irritation persists: Get medical advice/attention.**In case of fire: Use CO<sub>2</sub>, sand, extinguishing powder to extinguish.**Store in a dry place. Store in a closed container.**Store locked up.**Dispose of contents/container in accordance with local/regional/national/international regulations.*

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**

*Health = 2**Fire = 3**Reactivity = 2**The substance demonstrates unusual reactivity with water.*

· **HMIS-ratings (scale 0 - 4)**

*Health = \*2**Fire = 3**Reactivity = 2*

CA

(Contd. on page 3)

# Safety Data Sheet

## according to HPR, Schedule 1

Printing date 05/13/2022

Reviewed on 05/13/2022

Trade name: Aniline-Alcohol Solution

(Contd. of page 2)

### 3 Composition/Information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

· <b>Dangerous components:</b>		
64-17-5	Ethyl alcohol	65-85% w/w *
67-56-1	Methyl Alcohol	1-5% w/w *
62-53-3	aniline	0.1-1% w/w *

\* Actual concentration ranges are withheld as a trade secret.

### 4 First-aid measures

- **Description of first aid measures**
- **General information:**  
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- **After inhalation:**  
Supply fresh air and to be sure call for a 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. If symptoms persist, consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **For safety reasons unsuitable extinguishing agents:** Water
- **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**  
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**  
Inform respective authorities in case of seepage into water course or sewage system.  
Dilute with plenty of water.  
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.  
Do not flush with water or aqueous cleansing agents

(Contd. on page 4)



# Safety Data Sheet

## according to HPR, Schedule 1

Printing date 05/13/2022

Reviewed on 05/13/2022

Trade name: Aniline-Alcohol Solution

(Contd. of page 3)

- **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.  
Prevent formation of aerosols.
- **Information about protection against explosions and fires:** Keep ignition sources away - Do not smoke.
- **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.  
Store in cool, dry conditions in well sealed receptacles.
- **Specific end use(s)** No further relevant information available.

### 8 Exposure controls/ Personal protection

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

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

#### 64-17-5 Ethyl alcohol

EL	STEL: 1000 ppm
EV	TWA: 1,900 mg/m <sup>3</sup> , 1,000 ppm

#### 67-56-1 Methyl Alcohol

EL	STEL: 250 ppm TWA: 200 ppm Skin
EV	STEL: 325 mg/m <sup>3</sup> , 250 ppm TWA: 260 mg/m <sup>3</sup> , 200 ppm Skin

#### 62-53-3 aniline

EL	TWA: 2 ppm Skin
EV	TWA: 8 mg/m <sup>3</sup> , 2 ppm Skin

- **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.

(Contd. on page 5)

## Safety Data Sheet according to HPR, Schedule 1

Printing date 05/13/2022

Reviewed on 05/13/2022

Trade name: Aniline-Alcohol Solution

(Contd. of page 4)

Avoid contact with the eyes.

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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

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

· **Eye protection:**



Tightly sealed goggles

### 9 Physical and chemical properties

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

· **General Information**

· **Appearance:**

· <b>Form:</b>	Liquid
· <b>Color:</b>	Clear
· <b>Odor:</b>	Alcohol-like
· <b>Odor threshold:</b>	Not determined.

· **pH-value at 20 °C:** 6.5-9

· **Change in condition**

· <b>Melting point/Melting range:</b>	Undetermined.
· <b>Boiling point/Boiling range:</b>	100 °C

· **Flash point:** Not applicable.

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

· **Decomposition temperature:** Not determined.

· **Auto igniting:** Spontaneously flammable in air.

· **Danger of explosion:** Not determined.

· **Explosion limits:**

· **Lower:** Not determined.

(Contd. on page 6)

CA

# Safety Data Sheet

## according to HPR, Schedule 1

Printing date 05/13/2022

Reviewed on 05/13/2022

Trade name: Aniline-Alcohol Solution

(Contd. of page 5)

<b>Upper:</b>	Not determined.
· <b>Vapor pressure:</b>	Not determined.
· <b>Density:</b>	Not determined.
· <b>Relative density</b>	Not determined.
· <b>Vapor density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with Water:</b>	Fully miscible.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
· <b>Solvent content:</b>	
<b>Organic solvents:</b>	89.5 %
<b>Water:</b>	9.5 %
<b>Solids content:</b>	0.0 %
· <b>Other information</b>	No further relevant information available.

### 10 Stability and reactivity

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

### 11 Toxicological information

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

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

**67-56-1 Methyl Alcohol**

Oral	LD50	5,628 mg/kg (rat)
Dermal	LD50	15,800 mg/kg (rabbit)

**62-53-3 aniline**

Oral	LD50	250 mg/kg (rat)
Dermal	LD50	820 mg/kg (rabbit)
Inhalative	LC50/4 h	175 mg/l (mouse)

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** Irritating effect.
- **Sensitization:** Sensitization possible through skin contact.

(Contd. on page 7)

CA

# Safety Data Sheet

## according to HPR, Schedule 1

Printing date 05/13/2022

Reviewed on 05/13/2022

Trade name: Aniline-Alcohol Solution

(Contd. of page 6)

- **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful

Irritant

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

64-17-5	Ethyl alcohol	I
62-53-3	aniline	2A

- **NTP (National Toxicology Program)**

None of the ingredients is 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.

- **Ecotoxicological effects:**

- **Remark:** Harmful to fish

- **Additional ecological information:**

- **General notes:**

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Harmful to aquatic organisms

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

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

### 13 Disposal considerations

- **Waste treatment methods**

- **Recommendation:**

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

- **Uncleaned packagings:**

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

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

### 14 Transport information

- **UN-Number**

- **DOT/TDG, ADR, IMDG, IATA** UN2929

- **UN proper shipping name**

- **DOT/TDG** Toxic liquids, flammable, organic, n.o.s.

- **ADR** 2929 TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S.

(Contd. on page 8)

CA

# Safety Data Sheet









according to HPR, Schedule 1

Printing date 05/13/2022

Reviewed on 05/13/2022

Trade name: Aniline-Alcohol Solution

(Contd. of page 7)

· <b>IMDG, IATA</b>	TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S.
· <b>Transport hazard class(es)</b> · <b>DOT/TDG (Transport dangerous goods):</b>	
 	
· <b>Class</b> · <b>Label</b>	6.1 Toxic substances 6.1, 3
· <b>ADR</b>	
 	
· <b>Class</b> · <b>Label</b>	6.1 Toxic substances 6.1+3
· <b>IMDG</b>	
 	
· <b>Class</b> · <b>Label</b>	6.1 Toxic substances 6.1/3
· <b>IATA</b>	
 	
· <b>Class</b> · <b>Label</b>	6.1 Toxic substances 6.1 (3)
· <b>Packing group</b> · <b>DOT/TDG, ADR, IMDG, IATA</b>	II
· <b>Environmental hazards:</b>	Not applicable.
· <b>Special precautions for user</b>	Warning: Toxic substances
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>UN "Model Regulation":</b>	UN 2929 TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S., 6.1 (3), II

## 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**  
No further relevant information available.

(Contd. on page 9)

CA

## Safety Data Sheet

according to HPR, Schedule 1

Printing date 05/13/2022

Reviewed on 05/13/2022

Trade name: Aniline-Alcohol Solution

(Contd. of page 8)

· Sara

· **Section 355 (extremely hazardous substances):**

62-53-3 aniline

· **Section 313 (Specific toxic chemical listings):**

67-56-1 Methyl Alcohol

62-53-3 aniline

· **TSCA (Toxic Substances Control Act):**

All components have the value ACTIVE.

· **Canadian substance listings:**· **Canadian Domestic Substances List (DSL)**

All ingredients are listed.

· **Canadian Non-Domestic Substances List (NDSL)**

None of the ingredients is listed.

· **Canadian Ingredient Disclosure list (limit 0.1%)**

64-17-5 Ethyl alcohol

· **Canadian Ingredient Disclosure list (limit 1%)**

67-56-1 Methyl Alcohol

62-53-3 aniline

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

GHS02

GHS07

GHS08

· **Signal word** Danger· **Hazard-determining components of labeling:**

Ethyl alcohol

aniline

Methyl Alcohol

· **Hazard statements**

In contact with water releases flammable gases which may ignite spontaneously.

Causes serious eye irritation.

May cause an allergic skin reaction.

Suspected of causing genetic defects.

May cause cancer.

May cause damage to the central nervous system and the visual organs.

Causes damage to organs through prolonged or repeated exposure.

· **Precautionary statements**

Obtain special instructions before use.

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

Do not allow contact with water.

Handle and store contents under inert gas. Protect from moisture.

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

Wash thoroughly after handling.

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

Contaminated work clothing should not be allowed out of the workplace.

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

(Contd. on page 10)

## Safety Data Sheet according to HPR, Schedule 1

Printing date 05/13/2022

Reviewed on 05/13/2022

**Trade name: Aniline-Alcohol Solution**

(Contd. of page 9)

*IF ON SKIN: Brush off loose particles from skin. Immerse in cool water.*

*If on skin: Wash with plenty of water.*

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

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

*Get medical advice/attention if you feel unwell.*

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

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

*Specific treatment (see on this label).*

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

*In case of fire: Use CO<sub>2</sub>, sand, extinguishing powder to extinguish.*

*Store in a dry place. Store in a closed container.*

*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** 05/13/2022 / -*

*· **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*

*ELINCS: European List of Notified Chemical Substances*

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

*NFPA: National Fire Protection Association (USA)*

*HMIS: Hazardous Materials Identification System (USA)*

*LC50: Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*

*PBT: Persistent, Bioaccumulative and Toxic*

*vPvB: very Persistent and very Bioaccumulative*

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

Printing date 13.05.2022

Revision: 13.05.2022

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

- **1.1 Product identifier**
- **Trade name:** Aniline-Alcohol Solution
- **Article number:** 26450-02
- **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](mailto:info@emsdiasum.com)  
[www.emsdiasum.com](http://www.emsdiasum.com)
- **Further information obtainable from:** Product safety department
- **1.4 Emergency telephone number:**  
ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887

### SECTION 2: Hazards identification

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



flame

Water-react. 1 H260 In contact with water releases flammable gases which may ignite spontaneously.



health hazard

Muta. 2 H341 Suspected of causing genetic defects.  
Carc. 2 H351 Suspected of causing cancer.  
STOT SE 2 H371 May cause damage to the central nervous system and the visual organs.  
STOT RE 1 H372 Causes damage to organs through prolonged or repeated exposure.



Eye Irrit. 2 H319 Causes serious eye irritation.  
Skin Sens. 1 H317 May cause an allergic skin reaction.

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

(Contd. on page 2)

GB



# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 13.05.2022

Revision: 13.05.2022

Trade name: Aniline-Alcohol Solution

(Contd. of page 1)

## · Hazard pictograms



GHS02 GHS07 GHS08

## · Signal word Danger

## · Hazard-determining components of labelling:

aniline

Methyl Alcohol

## · Hazard statements

H260 In contact with water releases flammable gases which may ignite spontaneously.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H341 Suspected of causing genetic defects.

H351 Suspected of causing cancer.

H371 May cause damage to the central nervous system and the visual organs.

H372 Causes damage to organs through prolonged or repeated exposure.

## · Precautionary statements

P223 Do not allow contact with water.

P231+P232 Handle and store contents under inert gas. Protect from moisture.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

## · 2.3 Other hazards

## · Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

## SECTION 3: Composition/information on ingredients

## · 3.2 Chemical characterisation: Mixtures

· Description: Mixture of substances listed below with nonhazardous additions.

## · Dangerous components:

CAS: 64-17-5 EINECS: 200-578-6	Ethyl alcohol ⚠ Flam. Liq. 2, H225	>50-≤100%
CAS: 67-56-1 EINECS: 200-659-6	Methyl Alcohol ⚠ Flam. Liq. 2, H225; ⚠ STOT SE 1, H370; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332	>2.5-≤10%
CAS: 62-53-3 EINECS: 200-539-3	aniline ⚠ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; ⚠ Muta. 2, H341; Carc. 2, H351; STOT RE 1, H372; ⚠ Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400; ⚠ Skin Sens. 1, H317	≤2.5%

## · SVHC

64-17-5	Ethyl alcohol
67-56-1	Methyl Alcohol

(Contd. on page 3)

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 13.05.2022

Revision: 13.05.2022

**Trade name: Aniline-Alcohol Solution**

(Contd. of page 2)

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

## SECTION 4: First aid measures

### · 4.1 Description of first aid measures

#### · **General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

#### · **After inhalation:**

Supply fresh air and to be sure call for a 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. If symptoms persist, consult a doctor.

#### · **After swallowing:** If symptoms persist consult doctor.

### · 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.

· **For safety reasons unsuitable extinguishing agents:** Water

### · 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

Wear protective equipment. Keep unprotected persons away.

### · 6.2 Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

### · 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

### · 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.

Prevent formation of aerosols.

(Contd. on page 4)

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 13.05.2022

Revision: 13.05.2022

Trade name: Aniline-Alcohol Solution

(Contd. of page 3)

- **Information about fire - and explosion protection:** Keep ignition sources away - Do not smoke.
- **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.  
Store in cool, dry conditions in well sealed receptacles.
- **7.3 Specific end use(s)** No further relevant information available.

## SECTION 8: Exposure controls/personal protection

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

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

<b>64-17-5 Ethyl alcohol</b>	
WEL	Long-term value: 1920 mg/m <sup>3</sup> , 1000 ppm
<b>67-56-1 Methyl Alcohol</b>	
WEL	Short-term value: 333 mg/m <sup>3</sup> , 250 ppm
	Long-term value: 266 mg/m <sup>3</sup> , 200 ppm
	Sk
<b>62-53-3 aniline</b>	
WEL	Long-term value: 4 mg/m <sup>3</sup> , 1 ppm
	Sk

- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes.  
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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

(Contd. on page 5)

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

Printing date 13.05.2022

Revision: 13.05.2022

Trade name: Aniline-Alcohol Solution

(Contd. of page 4)

· **Penetration time of glove material**

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

· **Eye protection:**

Tightly sealed goggles

### SECTION 9: Physical and chemical properties

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

· <b>Form:</b>	Liquid
· <b>Colour:</b>	Clear
· <b>Odour:</b>	Alcohol-like
· <b>Odour threshold:</b>	Not determined.

· **pH-value at 20 °C:** 6.5-9· **Change in condition**

· <b>Melting point/freezing point:</b>	Undetermined.
· <b>Initial boiling point and boiling range:</b>	100 °C

· **Flash point:** Not applicable.· **Flammability (solid, gas):** Not applicable.· **Decomposition temperature:** Not determined.· **Auto-ignition temperature:** Spontaneously flammable in air.· **Explosive properties:** Not determined.· **Explosion limits:**

· <b>Lower:</b>	Not determined.
· <b>Upper:</b>	Not determined.

· **Vapour pressure:** Not determined.· **Density:** Not determined.· **Relative density** Not determined.· **Vapour density** Not determined.· **Evaporation rate** Not determined.· **Solubility in / Miscibility with water:**

Fully miscible.

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

· <b>Dynamic:</b>	Not determined.
· <b>Kinematic:</b>	Not determined.

· **Solvent content:**

· <b>Organic solvents:</b>	89.5 %
· <b>Water:</b>	9.5 %

(Contd. on page 6)

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

Printing date 13.05.2022

Revision: 13.05.2022

Trade name: Aniline-Alcohol Solution

(Contd. of page 5)

<b>VOC (EC)</b>	89.50 %
<b>Solids content:</b>	0.0 %
<b>· 9.2 Other information</b>	No further relevant information available.

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** Contact with water releases flammable gases.
- **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** Based on available data, the classification criteria are not met.

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

#### 67-56-1 Methyl Alcohol

Oral	LD50	5,628 mg/kg (rat)
Dermal	LD50	15,800 mg/kg (rabbit)

#### 62-53-3 aniline

Oral	LD50	250 mg/kg (rat)
Dermal	LD50	820 mg/kg (rabbit)
Inhalative	LC50/4 h	175 mg/l (mouse)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation**  
Causes serious eye irritation.
- **Respiratory or skin sensitisation**  
May cause an allergic skin reaction.
- **Additional toxicological information:**
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity**  
Suspected of causing genetic defects.
- **Carcinogenicity**  
Suspected of causing cancer.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure**  
May cause damage to the central nervous system and the visual organs.
- **STOT-repeated exposure**  
Causes damage to organs through prolonged or repeated exposure.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

GB

(Contd. on page 7)

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

Printing date 13.05.2022

Revision: 13.05.2022

Trade name: Aniline-Alcohol Solution

(Contd. of page 6)



### 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.
- **Ecotoxicological effects:**
- **Remark:** Harmful to fish
- **Additional ecological information:**
- **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.  
Harmful to aquatic organisms
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

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

### SECTION 14: Transport information

- |                                                                                                                                                                         |                                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|
| · <b>14.1 UN-Number</b>                                                                                                                                                 |                                               |
| · <b>ADR, IMDG, IATA</b>                                                                                                                                                | UN2929                                        |
| · <b>14.2 UN proper shipping name</b>                                                                                                                                   |                                               |
| · <b>ADR</b>                                                                                                                                                            | 2929 TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S. |
| · <b>IMDG, IATA</b>                                                                                                                                                     | TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S.      |
| · <b>14.3 Transport hazard class(es)</b>                                                                                                                                |                                               |
| · <b>ADR</b>                                                                                                                                                            |                                               |
|   |                                               |
| · <b>Class</b>                                                                                                                                                          | 6.1 Toxic substances.                         |
| · <b>Label</b>                                                                                                                                                          | 6.1+3                                         |

(Contd. on page 8)

GB

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 13.05.2022

Revision: 13.05.2022

Trade name: Aniline-Alcohol Solution

(Contd. of page 7)

· **IMDG**

· **Class** 6.1 Toxic substances.  
 · **Label** 6.1/3

· **IATA**

· **Class** 6.1 Toxic substances.  
 · **Label** 6.1 (3)

· **14.4 Packing group**

· **ADR, IMDG, IATA** II

· **14.5 Environmental hazards:** Not applicable.

· **14.6 Special precautions for user** Warning: Toxic substances.

· **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.

· **UN "Model Regulation":** UN 2929 TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S., 6.1 (3), II

## 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** None of the ingredients is listed.
- **Seveso category O2** Substances and mixtures which in contact with water emit flammable gases
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 100 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t

· **National regulations:**· **Other regulations, limitations and prohibitive regulations**· **Substances of very high concern (SVHC) according to REACH, Article 57**

64-17-5	Ethyl alcohol
67-56-1	Methyl Alcohol

· **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.

· **Relevant phrases**

H225 Highly flammable liquid and vapour.

(Contd. on page 9)

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

Printing date 13.05.2022

Revision: 13.05.2022

**Trade name: Aniline-Alcohol Solution**

(Contd. of page 8)

H301 Toxic if swallowed.  
 H302 Harmful if swallowed.  
 H311 Toxic in contact with skin.  
 H312 Harmful in contact with skin.  
 H317 May cause an allergic skin reaction.  
 H318 Causes serious eye damage.  
 H331 Toxic if inhaled.  
 H332 Harmful if inhaled.  
 H341 Suspected of causing genetic defects.  
 H351 Suspected of causing cancer.  
 H370 Causes damage to organs.  
 H372 Causes damage to organs through prolonged or repeated exposure.  
 H400 Very toxic to aquatic life.

**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  
 ELINCS: European List of Notified Chemical Substances  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 VOC: Volatile Organic Compounds (USA, EU)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 PBT: Persistent, Bioaccumulative and Toxic  
 SVHC: Substances of Very High Concern  
 vPvB: very Persistent and very Bioaccumulative  
 Flam. Liq. 2: Flammable liquids – Category 2  
 Water-react. 1: Substances and mixtures which in contact with water emit flammable gases – Category 1  
 Acute Tox. 3: Acute toxicity – Category 3  
 Acute Tox. 4: Acute toxicity – Category 4  
 Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
 Skin Sens. 1: Skin sensitisation – Category 1  
 Muta. 2: Germ cell mutagenicity – Category 2  
 Carc. 2: Carcinogenicity – Category 2  
 STOT SE 1: Specific target organ toxicity (single exposure) – Category 1  
 STOT SE 2: Specific target organ toxicity (single exposure) – Category 2  
 STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1  
 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

GB



# Veiligheidsinformatieblad

volgens 1907/2006/EG, Artikel 31

datum van de druk: 13.05.2022

Herziening van: 13.05.2022

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

- **1.1 Productidentificatie**
- **Handelsnaam:** Aniline-Alcohol Solution
- **Artikelnummer:** 26450-02
- **UFI:** NSD5-50FR-H00K-D38F
- **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](mailto:info@emsdiasum.com)  
[www.emsdiasum.com](http://www.emsdiasum.com)
- **Aurion**  
Binnenhaven 5  
6709 PD Wageningen  
The Netherlands  
Tel: 31 317 415094  
Fax: 31 317 415955  
email: [info@aurion.nl](mailto: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**



GHS02 vlam

Water-react. 1 H260 In contact met water komen ontvlambare gassen vrij die spontaan kunnen ontbranden.



GHS08 gezondheidsgevaar

Muta. 2 H341 Verdacht van het veroorzaken van genetische schade.

Carc. 2 H351 Verdacht van het veroorzaken van kanker.

STOT SE 2 H371 Kan schade veroorzaken aan het centrale zenuwstelsel en de visuele organen.

STOT RE 1 H372 Veroorzaakt schade aan organen bij langdurige of herhaalde blootstelling.



GHS07

Eye Irrit. 2 H319 Veroorzaakt ernstige oogirritatie.

Skin Sens. 1 H317 Kan een allergische huidreactie veroorzaken.

(Vervolg op blz. 2)

# Veiligheidsinformatieblad

## volgens 1907/2006/EG, Artikel 31

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**Handelsnaam: Aniline-Alcohol Solution**

(Vervolg van blz. 1)

- **2.2 Etiketteringselementen**
- **Etikettering overeenkomstig Verordening (EG) nr. 1272/2008**  
Het product is geclassificeerd en geëtiketteerd volgens de CLP-verordening.
- **Gevarenpictogrammen**



GHS02 GHS07 GHS08

- **Signaalwoord** Gevaar
- **Gevaaraanduidende componenten voor de etikettering:**  
aniline  
methanol
- **Gevarenaanduidingen**  
H260 In contact met water komen ontvlambare gassen vrij die spontaan kunnen ontbranden.  
H319 Veroorzaakt ernstige oogirritatie.  
H317 Kan een allergische huidreactie veroorzaken.  
H341 Verdacht van het veroorzaken van genetische schade.  
H351 Verdacht van het veroorzaken van kanker.  
H371 Kan schade veroorzaken aan het centrale zenuwstelsel en de visuele organen.  
H372 Veroorzaakt schade aan organen bij langdurige of herhaalde blootstelling.
- **Veiligheidsaanbevelingen**  
P223 Contact met water vermijden.  
P231+P232 Inhoud onder inert gas gebruiken en bewaren. Tegen vocht beschermen.  
P260 Stof/rook/gas/nevel/damp/spuitnevel niet inademen.  
P305+P351+P338 BIJ CONTACT MET DE OGEN: voorzichtig afspoelen met water gedurende een aantal minuten; contactlenzen verwijderen, indien mogelijk; blijven spoelen.  
P405 Achter slot bewaren.  
P501 De inhoud en de verpakking verwerken volgens de plaatselijke/regionale/nationale/internationale voorschriften.
- **2.3 Andere gevaren**
- **Resultaten van PBT- en zPzB-beoordeling**
- **PBT:** Niet bruikbaar.
- **zPzB:** Niet bruikbaar.

### RUBRIEK 3: Samenstelling en informatie over de bestanddelen

- **3.2 Chemische karakterisering: Mengsels**
- **Beschrijving:** Mengsel van na elkaar aangevoerde stoffen met ongevaarlijke bijmengingen.

#### · **Gevaarlijke inhoudstoffen:**

CAS: 64-17-5 EINECS: 200-578-6	ethanol Flam. Liq. 2, H225	>50-≤100%
CAS: 67-56-1 EINECS: 200-659-6	methanol Flam. Liq. 2, H225; STOT SE 1, H370; Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332	>2,5-≤10%
CAS: 62-53-3 EINECS: 200-539-3	aniline Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; Muta. 2, H341; Carc. 2, H351; STOT RE 1, H372; Eye Dam. 1, H318; Aquatic Acute 1, H400; Skin Sens. 1, H317	≤2,5%

(Vervolg op blz. 3)

# Veiligheidsinformatieblad

## volgens 1907/2006/EG, Artikel 31

datum van de druk: 13.05.2022

Herziening van: 13.05.2022

**Handelsnaam: Aniline-Alcohol Solution**

(Vervolg van blz. 2)

· <b>SVHC</b>	
64-17-5	ethanol
67-56-1	methanol

· **Aanvullende gegevens:**

De woordelijke inhoud van de opgegeven aanwijzingen inzake de mogelijke gevaren is te vinden in hoofdstuk 16.

### RUBRIEK 4: Eerstehulpmaatregelen

· **4.1 Beschrijving van de eerstehulpmaatregelen**· **Algemene informatie:**

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

· **Na het inademen:**

Veel verse lucht toedienen en voor alle zekerheid een arts raadplegen.

Bij bewusteloosheid ligging en vervoer in stabiele zijligging.

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

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

· **Na inslikken:** Als de klachten niet minderen, een arts raadplegen· **4.2 Belangrijkste acute en uitgestelde symptomen en effecten** Geen verdere relevante informatie verkrijgbaar.· **4.3 Vermelding van de vereiste onmiddellijke medische verzorging en speciale behandeling**

Geen verdere relevante informatie verkrijgbaar.

### RUBRIEK 5: Brandbestrijdingsmaatregelen

· **5.1 Blusmiddelen**· **Geschikte blusmiddelen:** Brandblusmaatregelen op omgeving afstemmen.· **Blusmiddelen die uit veiligheidsoogpunt niet geschikt zijn:** Water· **5.2 Speciale gevaren die door de stof of het mengsel worden veroorzaakt**

Geen verdere relevante informatie verkrijgbaar.

· **5.3 Advies voor brandweerlieden**· **Speciale beschermende kleding:** Ademhalingstoestel aantrekken.

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

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

Beschermende kleding aantrekken. Niet beschermde personen op afstand houden.

· **6.2 Milieuvoorzorgsmaatregelen:**

Bij indringen in afvalwater of riolering moet de bevoegde instantie gewaarschuwd worden.

Met veel water verdunnen.

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

· **6.3 Insluitings- en reinigingsmethoden en -materiaal:**

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

Besmet materiaal zoals afval volgens punt 13 verwijderen.

Voor voldoende ventilatie zorgen.

Niet met water of waterachtige reinigingsmiddelen wegspoelen.

· **6.4 Verwijzing naar andere rubrieken**

Informatie inzake veilig gebruik - zie hoofdstuk 7.

Informatie inzake persoonlijke beschermingsuitrusting - zie hoofdstuk 8.

(Vervolg op blz. 4)

# Veiligheidsinformatieblad

## volgens 1907/2006/EG, Artikel 31

datum van de druk: 13.05.2022

Herziening van: 13.05.2022

Handelsnaam: Aniline-Alcohol Solution

(Vervolg van blz. 3)

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.  
Aërosolvorming vermijden.
- **Informatie m.b.t. brand- en ontploffingsgevaar:** Onststekingsbronnen op afstand houden - niet roken.
- **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.  
Koel en droog bewaren in goed gesloten vaten.
- **7.3 Specifiek eindgebruik** Geen verdere relevante informatie verkrijgbaar.

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

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

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

#### 64-17-5 ethanol

WGW	Korte termijn waarde: 1900 mg/m <sup>3</sup> , 990 ppm
	Lange termijn waarde: 260 mg/m <sup>3</sup> , 35 ppm

#### 67-56-1 methanol

WGW	Lange termijn waarde: 133 mg/m <sup>3</sup> , 100 ppm
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- **Aanvullende gegevens:** Als basis dienden lijsten die bij opstelling geldig waren.
- **8.2 Maatregelen ter beheersing van blootstelling**
- **Persoonlijke beschermingsvoorzieningen:**
- **Algemene beschermings- en gezondheidsmaatregelen:**  
Verwijderd houden van eet- en drinkwaren.  
Verontreinigde kleding onmiddellijk uittrekken.  
Vóór de pauze en aan het einde van werktijd handen wassen.  
Aanraking met de ogen vermijden.  
Aanraking met de ogen en de huid vermijden.
- **Ademhalingsbescherming:**  
Bij korte of geringe belasting ademfiltertoestel; bij intensieve resp. langdurige expositie een van de omringende lucht onafhankelijk ademhalingstoestel 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 chemicaliënmengsel afgegeven worden.  
Kies handschoenmateriaal rekening houdend met de penetratietijden, de permeatiegraden en de degradatie.

(Vervolg op blz. 5)

# Veiligheidsinformatieblad

## volgens 1907/2006/EG, Artikel 31

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**Handelsnaam: Aniline-Alcohol Solution**

(Vervolg van blz. 4)

**· 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. Aangezien het product uit meerdere stoffen is samengesteld, is de duurzaamheid van de handschoenmaterialen niet vooraf berekenbaar en moet derhalve vóór het gebruik worden getest.

**· Doordringingstijd van het handschoenmateriaal**

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

**· Oogbescherming:**

Nauw aansluitende veiligheidsbril

### RUBRIEK 9: Fysische en chemische eigenschappen

**· 9.1 Informatie over fysische en chemische basiseigenschappen****· Algemene gegevens****· Voorkomen:**

<b>Vorm:</b>	Vloeistof
<b>Kleur:</b>	Helder
<b>Geur:</b>	Alcoholachtig
<b>Geurdrempelwaarde:</b>	Niet bepaald.

**· pH-waarde bij 20 °C:** 6,5-9

**· Toestandsverandering**

<b>Smelt-/vriespunt:</b>	Niet bepaald.
<b>Beginkookpunt en kooktraject:</b>	100 °C

**· Vlampunt:** Niet bruikbaar.

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

**· Ontledingstemperatuur:** Niet bepaald.

**· Zelfontbrandingstemperatuur:** Spontaan ontvlambaar in lucht.

**· Ontploffingseigenschappen:** Niet bepaald.

**· Ontploffingsgrenzen:**

<b>Onderste:</b>	Niet bepaald.
<b>Bovenste:</b>	Niet bepaald.

**· Dampspanning:** Niet bepaald.

**Dichtheid:** Niet bepaald.

**· Relatieve dichtheid** Niet bepaald.

**· Dampdichtheid** Niet bepaald.

**· Verdampingssnelheid** Niet bepaald.

**· Oplosbaarheid in/mengbaarheid met**

**Water:** Volledig mengbaar.

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

**· Viscositeit**

**Dynamisch:** Niet bepaald.

**Kinematisch:** Niet bepaald.

(Vervolg op blz. 6)

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(Vervolg van blz. 5)

<b>Oplosmiddelgehalte:</b>	
<b>Organisch oplosmiddel:</b>	89,5 %
<b>Water:</b>	9,5 %
<b>VOC (EG)</b>	89,50 %

<b>Gehalte aan vaste bestanddelen:</b>	0,0 %
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<b>9.2 Overige informatie</b>	Geen verdere relevante informatie verkrijgbaar.
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## 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** Contact met water maakt brandbare gassen vrij.
- **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** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.

### Indelingsrelevantie LD/LC50-waarden:

#### 67-56-1 methanol

Oraal	LD50	5.628 mg/kg (rat)
Dermaal	LD50	15.800 mg/kg (rabbit)

#### 62-53-3 aniline

Oraal	LD50	250 mg/kg (rat)
Dermaal	LD50	820 mg/kg (rabbit)
Inhalatief	LC50/4 h	175 mg/l (mouse)

- **Primaire aandoening:**
- **Huidcorrosie/-irritatie** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.
- **Ernstig oogletsel/oogirritatie**  
Veroorzaakt ernstige oogirritatie.
- **Sensibilisatie van de luchtwegen/de huid**  
Kan een allergische huidreactie veroorzaken.
- **Aanvullende toxicologische informatie:**
- **CMR-effecten (kankerverwekkendheid, mutageniteit en giftigheid voor de voortplanting)**
- **Mutageniteit in geslachtscellen**  
Verdacht van het veroorzaken van genetische schade.
- **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**  
Kan schade veroorzaken aan het centrale zenuwstelsel en de visuele organen.
- **STOT bij herhaalde blootstelling**  
Veroorzaakt schade aan organen bij langdurige of herhaalde blootstelling.

(Vervolg op blz. 7)

# Veiligheidsinformatieblad

## volgens 1907/2006/EG, Artikel 31

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Herziening van: 13.05.2022

**Handelsnaam: Aniline-Alcohol Solution**

(Vervolg van blz. 6)

· **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.
- **Ecotoxische effecten:**
- **Opmerking:** Schadelijk voor vissen.
- **Verdere ecologische informatie:**
- **Algemene informatie:**  
Waterbezwaarlijkheid (NL): Z(1) niet afbreekbare stoffen met gevaarlijke eigenschappen voor mens en milieu (carcinogeniteit/mutageniteit/ reprotoxiciteit/bioaccumulerend vermogen/ toxiciteit of persistentie)  
Gevaar voor water klasse 1 (D) (Zelfclassificatie): gevaar voor water klein  
Niet onverdund of in grote hoeveelheden lozen in grondwater, in oppervlaktewater of in de riolering.  
schadelijk voor in het water levende organismen
- **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 terecht komen.
- **Niet gereinigde verpakkingen:**
- **Aanbeveling:** Afvalverwijdering volgens overheidsbepalingen.
- **Aanbevolen reinigingsmiddel:** Water, eventueel met toevoeging van reinigingsmiddelen.

### RUBRIEK 14: Informatie met betrekking tot het vervoer

- **14.1 VN-nummer**
- **ADR, IMDG, IATA** UN2929
- **14.2 Juiste ladingnaam overeenkomstig de modelreglementen van de VN**
- **ADR** 2929 GIFTIGE ORGANISCHE VLOEISTOF, BRANDBAAR, N.E.G.
- **IMDG, IATA** TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S.
- **14.3 Transportgevaarklasse(n)**
- **ADR**
- 
- **klasse** 6.1 Giftige stoffen

(Vervolg op blz. 8)

# Veiligheidsinformatieblad

volgens 1907/2006/EG, Artikel 31

datum van de druk: 13.05.2022

Herziening van: 13.05.2022

**Handelsnaam: Aniline-Alcohol Solution**

(Vervolg van blz. 7)

· <b>Etiket</b>	6.1+3
· <b>IMDG</b>	
	
· <b>Class</b>	6.1 Giftige stoffen
· <b>Label</b>	6.1/3
· <b>IATA</b>	
	
· <b>Class</b>	6.1 Giftige stoffen
· <b>Label</b>	6.1 (3)
· <b>14.4 Verpakkingsgroep:</b>	
· <b>ADR, IMDG, IATA</b>	II
· <b>14.5 Milieugevaren:</b>	Niet bruikbaar.
· <b>14.6 Bijzondere voorzorgen voor de gebruiker</b>	Waarschuwing: Giftige stoffen
· <b>14.7 Vervoer in bulk overeenkomstig bijlage II bij Marpol en de IBC-code</b>	Niet bruikbaar.
· <b>VN "Model Regulation":</b>	UN 2929 GIFTIGE ORGANISCHE VLOEISTOF, BRANDBAAR, N.E.G., 6.1 (3), II

## RUBRIEK 15: Regelgeving

### · 15.1 Specifieke veiligheids-, gezondheids- en milieureglementen en -wetgeving voor de stof of het mengsel

· <b>SZW-lijst van kankerverwekkende stoffen</b>	
64-17-5	ethanol
· <b>SZW-lijst van mutagene stoffen</b>	
geen der bestanddelen staat op de lijst.	
· <b>NIET-limitatieve lijst van voor de voortplanting giftige stoffen - Vruchtbaarheid</b>	
64-17-5	ethanol
	IA
· <b>NIET-limitatieve lijst van voor de voortplanting giftige stoffen - Ontwikkeling</b>	
64-17-5	ethanol
	IA
· <b>NIET-limitatieve lijst van voor de voortplanting giftige stoffen - Borstvoeding</b>	
64-17-5	ethanol
	x
· <b>Lijst Zeer Zorgwekkende Stoffen (ZZS)</b>	
geen der bestanddelen staat op de lijst.	
· <b>Lijst van Potentieel Zeer Zorgwekkende Stoffen</b>	
geen der bestanddelen staat op de lijst.	

### · Richtlijn 2012/18/EU

· **Gevaarlijke stoffen die met naam genoemd worden - BIJLAGE I** geen der bestanddelen staat op de lijst.

(Vervolg op blz. 9)



# Veiligheidsinformatieblad

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**Handelsnaam: Aniline-Alcohol Solution**

(Vervolg van blz. 8)

- **Seveso-categorie O2** Stoffen en mengsels die in contact met water ontvlambare gassen ontwikkelen
- **Drempelwaarde (ton) voor toepassing van voorschriften voor lagedrempelinrichtingen** 100 t
- **Drempelwaarde (ton) voor toepassing van voorschriften voor hogedrempelinrichtingen** 500 t
- **Verordening (EG) nr. 1907/2006 BIJLAGE XVII** Beperkingsvoorwaarden: 3, 40, 69

· **Richtlijn 2011/65/EU betreffende beperking van het gebruik van bepaalde gevaarlijke stoffen in elektrische en elektronische apparatuur - Bijlage II**

geen der bestanddelen staat op de lijst.

· **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)**

geen der bestanddelen staat op de lijst.

· **Bijlage II - PRECURSOREN VOOR EXPLOSIEVEN DIE MOETEN WORDEN GEMELD**

geen der bestanddelen staat op de lijst.

· **Verordening (EG) nr. 273/2004 inzake drugsprecursoren**

geen der bestanddelen staat op de lijst.

· **Verordening (EG) Nr. 111/2005 houdende voorschriften voor het toezicht op de handel tussen de Gemeenschap en derde landen in drugsprecursoren**

geen der bestanddelen staat op de lijst.

· **Nationale voorschriften:**

· **Gevaarklasse v. water:**

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

· **Aanvullende voorschriften, beperkingen en verbodsverordeningen**

· **Zeer zorgwekkende stoffen (SVHC) volgens REACH, artikel 57**

64-17-5	ethanol
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67-56-1	methanol
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· **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.

· **Relevante zinnen**

H225 Licht ontvlambare vloeistof en damp.

H301 Giftig bij inslikken.

H302 Schadelijk bij inslikken.

H311 Giftig bij contact met de huid.

H312 Schadelijk bij contact met de huid.

H317 Kan een allergische huidreactie veroorzaken.

H318 Veroorzaakt ernstig oogletsel.

H331 Giftig bij inademing.

H332 Schadelijk bij inademing.

H341 Verdacht van het veroorzaken van genetische schade.

H351 Verdacht van het veroorzaken van kanker.

H370 Veroorzaakt schade aan organen.

H372 Veroorzaakt schade aan organen bij langdurige of herhaalde blootstelling.

H400 Zeer giftig voor in het water levende organismen.

(Vervolg op blz. 10)

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

datum van de druk: 13.05.2022

Herziening van: 13.05.2022

**Handelsnaam: Aniline-Alcohol Solution**

(Vervolg van blz. 9)

**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  
 ELINCS: European List of Notified Chemical Substances  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 VOC: Volatile Organic Compounds (USA, EU)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 PBT: Persistent, Bioaccumulative and Toxic  
 SVHC: Substances of Very High Concern  
 vPvB: very Persistent and very Bioaccumulative  
 Flam. Liq. 2: Ontvlambare vloeistoffen – Categorie 2  
 Water-react. 1: Stoffen en mengsels die in contact met water ontvlambare gassen ontwikkelen – Categorie 1  
 Acute Tox. 3: Acute toxiciteit – Categorie 3  
 Acute Tox. 4: Acute toxiciteit – Categorie 4  
 Eye Dam. 1: Ernstig oogletsel/oogirritatie – Categorie 1  
 Eye Irrit. 2: Ernstig oogletsel/oogirritatie – Categorie 2  
 Skin Sens. 1: Sensibilisatie van de huid – Categorie 1  
 Muta. 2: Mutageniteit in geslachtscellen – Categorie 2  
 Carc. 2: Kankerverwekkendheid – Categorie 2  
 STOT SE 1: Specifieke doelorgaantoxiciteit bij eenmalige blootstelling – Categorie 1  
 STOT SE 2: Specifieke doelorgaantoxiciteit bij eenmalige blootstelling – Categorie 2  
 STOT RE 1: Specifieke doelorgaantoxiciteit bij herhaalde blootstelling – Categorie 1  
 Aquatic Acute 1: Gevaar voor het aquatisch milieu - acuut aquatisch gevaar – Categorie 1

NL

# Fiche de données de sécurité

## selon 1907/2006/CE, Article 31

Date d'impression : 13.05.2022

Révision: 13.05.2022

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

- **1.1 Identificateur de produit**
- **Nom du produit:** Aniline-Alcohol Solution
- **Code du produit:** 26450-02
- **UFI:** NSD5-50FR-H00K-D38F
- **1.2 Utilisations identifiées pertinentes de la substance ou du mélange et utilisations déconseillées**  
Pas d'autres informations importantes disponibles.
- **Emploi de la substance / de la préparation** Produits chimiques pour laboratoires
- **1.3 Renseignements concernant le fournisseur de la fiche de données de sécurité**
- **Producteur/fournisseur:**  
Electron Microscopy Sciences  
1560 Industry Road  
USA-Hatfield, PA 19440  
Tel: 215-412-8400 Fax: 215-412-8450  
email: [info@emsdiasum.com](mailto:info@emsdiasum.com)  
[www.emsdiasum.com](http://www.emsdiasum.com)
- **Service chargé des renseignements:** Product safety department
- **1.4 Numéro d'appel d'urgence:**  
ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887

### RUBRIQUE 2: Identification des dangers

- **2.1 Classification de la substance ou du mélange**
- **Classification selon le règlement (CE) n° 1272/2008**



GHS02 flamme

Water-react. 1 H260 Dégage au contact de l'eau des gaz inflammables qui peuvent s'enflammer spontanément.



GHS08 danger pour la santé

Muta. 2 H341 Susceptible d'induire des anomalies génétiques.

Carc. 2 H351 Susceptible de provoquer le cancer.

STOT SE 2 H371 Risque présumé d'effets graves pour le système nerveux central et les organes visuels.

STOT RE 1 H372 Risque avéré d'effets graves pour les organes à la suite d'expositions répétées ou d'une exposition prolongée.



GHS07

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

Skin Sens. 1 H317 Peut provoquer une allergie cutanée.

- **2.2 Éléments d'étiquetage**
- **Étiquetage selon le règlement (CE) n° 1272/2008** Le produit est classifié et étiqueté selon le règlement CLP.

(suite page 2)

# Fiche de données de sécurité

## selon 1907/2006/CE, Article 31

Date d'impression : 13.05.2022

Révision: 13.05.2022

**Nom du produit: Aniline-Alcohol Solution**

(suite de la page 1)

**Pictogrammes de danger**


GHS02 GHS07 GHS08

**Mention d'avertissement Danger**
**Composants dangereux déterminants pour l'étiquetage:**

aniline  
méthanol

**Mentions de danger**

H260 Dégage au contact de l'eau des gaz inflammables qui peuvent s'enflammer spontanément.

H319 Provoque une sévère irritation des yeux.

H317 Peut provoquer une allergie cutanée.

H341 Susceptible d'induire des anomalies génétiques.

H351 Susceptible de provoquer le cancer.

H371 Risque présumé d'effets graves pour le système nerveux central et les organes visuels.

H372 Risque avéré d'effets graves pour les organes à la suite d'expositions répétées ou d'une exposition prolongée.

**Conseils de prudence**

P223 Éviter tout contact avec l'eau.

P231+P232 Manipuler et stocker le contenu sous gaz inerte. Protéger de l'humidité.

P260 Ne pas respirer les poussières/fumées/gaz/brouillards/vapeurs/aérosols.

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

P405 Garder sous clef.

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

**2.3 Autres dangers**
**Résultats des évaluations PBT et vPvB**

· **PBT:** Non applicable.

· **vPvB:** Non applicable.

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

**3.2 Caractérisation chimique: Mélanges**

· **Description:** Mélange des substances mentionnées à la suite avec des additifs non dangereux.

**Composants dangereux:**

CAS: 64-17-5 EINECS: 200-578-6	éthanol ⚠ Flam. Liq. 2, H225	>50-≤100%
CAS: 67-56-1 EINECS: 200-659-6	méthanol ⚠ Flam. Liq. 2, H225; ⚠ STOT SE 1, H370; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332	>2,5-≤10%
CAS: 62-53-3 EINECS: 200-539-3	aniline ⚠ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; ⚠ Muta. 2, H341; Carc. 2, H351; STOT RE 1, H372; ⚠ Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400; ⚠ Skin Sens. 1, H317	≤2,5%

**SVHC**

64-17-5 éthanol

(suite page 3)

# Fiche de données de sécurité

## selon 1907/2006/CE, Article 31

Date d'impression : 13.05.2022

Révision: 13.05.2022

**Nom du produit: Aniline-Alcohol Solution**

(suite de la page 2)

67-56-1 méthanol

· **Indications complémentaires:** Pour le libellé des phrases de risque citées, se référer au chapitre 16.

### RUBRIQUE 4: Premiers secours

#### · 4.1 Description des premiers secours

##### · Remarques générales:

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

##### · Après inhalation:

Donner de l'air frais en abondance et consulter un médecin pour plus de sécurité.

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. Si les troubles persistent, consulter un médecin.

##### · Après ingestion: Si les troubles persistent, consulter un médecin.

#### · 4.2 Principaux symptômes et effets, aigus et différés Pas d'autres informations importantes disponibles.

#### · 4.3 Indication des éventuels soins médicaux immédiats et traitements particuliers nécessaires

Pas d'autres informations importantes disponibles.

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

#### · 5.1 Moyens d'extinction

##### · Moyens d'extinction: Adapter les mesures d'extinction d'incendie à l'environnement.

##### · Produits extincteurs déconseillés pour des raisons de sécurité: Eau

#### · 5.2 Dangers particuliers résultant de la substance ou du mélange

Pas d'autres informations importantes disponibles.

#### · 5.3 Conseils aux pompiers

##### · Equipement spécial de sécurité: Porter un appareil de protection respiratoire.

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

#### · 6.1 Précautions individuelles, équipement de protection et procédures d'urgence

Porter un équipement de sécurité. Eloigner les personnes non protégées.

#### · 6.2 Précautions pour la protection de l'environnement:

En cas de pénétration dans les eaux ou les égouts, avertir les autorités compétentes.

Diluer avec beaucoup d'eau.

Ne pas rejeter dans les canalisations, dans les eaux de surface et dans les nappes d'eau souterraines.

#### · 6.3 Méthodes et matériel de confinement et de nettoyage:

Recueillir les liquides à l'aide d'un produit absorbant (sable, kieselguhr, neutralisant d'acide, liant universel, sciure).

Evacuer les matériaux contaminés en tant que déchets conformément au point 13.

Assurer une aération suffisante.

Ne pas rincer à l'eau ou aux produits nettoyants aqueux.

#### · 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.

FR

(suite page 4)

# Fiche de données de sécurité

## selon 1907/2006/CE, Article 31

Date d'impression : 13.05.2022

Révision: 13.05.2022

Nom du produit: Aniline-Alcohol Solution

(suite de la page 3)

### 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.  
Eviter la formation d'aérosols.
- **Préventions des incendies et des explosions:** Tenir à l'abri des sources d'inflammation - ne pas fumer.
- **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.  
Stocker au frais et au sec dans des fûts bien 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:**

#### 64-17-5 éthanol

VLEP	Valeur momentanée: 9500 mg/m <sup>3</sup> , 5000 ppm
	Valeur à long terme: 1900 mg/m <sup>3</sup> , 1000 ppm

#### 67-56-1 méthanol

VLEP	Valeur momentanée: 1300 mg/m <sup>3</sup> , 1000 ppm
	Valeur à long terme: 260 mg/m <sup>3</sup> , 200 ppm
	risque de pénétration percutanée, (11)

#### 62-53-3 aniline

VLEP	Valeur à long terme: 10 mg/m <sup>3</sup> , 2 ppm
	C2, M2; Risque de pénétration percutanée

- **Remarques supplémentaires:**  
Le présent document s'appuie sur les listes en vigueur au moment de son élaboration.
- **8.2 Contrôles de l'exposition**
- **Equipement 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.  
Eviter tout contact avec les yeux.  
Eviter 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 5)

# Fiche de données de sécurité

## selon 1907/2006/CE, Article 31

Date d'impression : 13.05.2022

Révision: 13.05.2022

**Nom du produit: Aniline-Alcohol Solution**

(suite de la page 4)

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 dépend non seulement du matériau, mais aussi d'autres critères de qualité qui peuvent varier d'un fabricant à l'autre. Puisque le produit représente une préparation composée de plusieurs substances, la résistance des matériaux des gants ne peut pas être calculée à l'avance et doit, alors, être contrôlée avant l'utilisation.

· **Temps de pénétration du matériau des gants**

Le temps de pénétration exact est à déterminer par le fabricant des gants de protection et à respecter.

· **Protection des yeux:**



Lunettes de protection hermétiques

### RUBRIQUE 9: Propriétés physiques et chimiques

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

· **Indications générales**

· **Aspect:**

<b>Forme:</b>	Liquide
<b>Couleur:</b>	Transparent
<b>Odeur:</b>	Genre alcool
<b>Seuil olfactif:</b>	Non déterminé.

· **valeur du pH à 20 °C:** 6,5-9

· **Changement d'état**

<b>Point de fusion/point de congélation:</b>	Non déterminé.
<b>Point initial d'ébullition et intervalle d'ébullition:</b>	100 °C

· **Point d'éclair** Non applicable.

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

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

· **Température d'auto-inflammabilité:** Spontanément inflammable à l'air.

· **Propriétés explosives:** Non déterminé.

· **Limites d'explosion:**

<b>Inférieure:</b>	Non déterminé.
<b>Supérieure:</b>	Non déterminé.

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

· **Densité:** Non déterminée.

· **Densité relative** Non déterminé.

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

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

· **Solubilité dans/miscibilité avec l'eau:**

Entièrement miscible

(suite page 6)

# Fiche de données de sécurité

## selon 1907/2006/CE, Article 31

Date d'impression : 13.05.2022

Révision: 13.05.2022

**Nom du produit: Aniline-Alcohol Solution**

(suite de la page 5)

· <b>Coefficient de partage: n-octanol/eau:</b>	Non déterminé.
· <b>Viscosité:</b>	
<b>Dynamique:</b>	Non déterminé.
<b>Cinématique:</b>	Non déterminé.
· <b>Teneur en solvants:</b>	
<b>Solvants organiques:</b>	89,5 %
<b>Eau:</b>	9,5 %
<b>VOC (CE)</b>	89,50 %
<b>Teneur en substances solides:</b>	0,0 %
· <b>9.2 Autres informations</b>	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** Un contact avec l'eau provoque la libération de gaz combustibles.
- **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** Compte tenu des données disponibles, les critères de classification ne sont pas remplis.

· <b>Valeurs LD/LC50 déterminantes pour la classification:</b>		
<b>67-56-1 méthanol</b>		
Oral	LD50	5.628 mg/kg (rat)
Dermique	LD50	15.800 mg/kg (lapin)
<b>62-53-3 aniline</b>		
Oral	LD50	250 mg/kg (rat)
Dermique	LD50	820 mg/kg (lapin)
Inhalatoire	LC50/4 h	175 mg/l (souris)

- **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**  
Provoque une sévère irritation des yeux.
- **Sensibilisation respiratoire ou cutanée**  
Peut provoquer une allergie cutanée.
- **Indications toxicologiques complémentaires:**
- **Effets CMR (cancérogène, mutagène et toxique pour la reproduction)**
- **Mutagénicité sur les cellules germinales**  
Susceptible d'induire des anomalies génétiques.
- **Cancérogénicité**  
Susceptible de provoquer le cancer.

(suite page 7)



# Fiche de données de sécurité

## selon 1907/2006/CE, Article 31

Date d'impression : 13.05.2022

Révision: 13.05.2022

**Nom du produit: Aniline-Alcohol Solution**

(suite de la page 6)

- **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**  
Risque présumé d'effets graves pour le système nerveux central et les organes visuels.
- **Toxicité spécifique pour certains organes cibles - exposition répétée**  
Risque avéré d'effets graves pour les organes à la suite d'expositions répétées ou d'une exposition prolongée.
- **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.
- **Effets écotoxiques:**
- **Remarque:** Nocif pour les poissons.
- **Autres indications écologiques:**
- **Indications générales:**  
Catégorie de pollution des eaux 1 (D) (Classification propre): peu polluant  
Ne pas laisser le produit, non dilué ou en grande quantité, pénétrer la nappe phréatique, les eaux ou les canalisations.  
Nocif pour les organismes aquatiques.
- **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.
- **Produit de nettoyage recommandé:** Eau, éventuellement avec des produits de nettoyage

### RUBRIQUE 14: Informations relatives au transport

- |                                                            |                                                        |
|------------------------------------------------------------|--------------------------------------------------------|
| · <b>14.1 Numéro ONU</b>                                   |                                                        |
| · <b>ADR, IMDG, IATA</b>                                   | UN2929                                                 |
| · <b>14.2 Désignation officielle de transport de l'ONU</b> |                                                        |
| · <b>ADR</b>                                               | 2929 LIQUIDE ORGANIQUE TOXIQUE,<br>INFLAMMABLE, N.S.A. |
| · <b>IMDG, IATA</b>                                        | TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S.               |

(suite page 8)

# Fiche de données de sécurité

## selon 1907/2006/CE, Article 31

Date d'impression : 13.05.2022

Révision: 13.05.2022

**Nom du produit: Aniline-Alcohol Solution**

(suite de la page 7)

· **14.3 Classe(s) de danger pour le transport**

· **ADR**



· **Classe** 6.1 Matières toxiques.  
 · **Étiquette** 6.1+3

· **IMDG**



· **Class** 6.1 Matières toxiques.  
 · **Label** 6.1/3

· **IATA**



· **Class** 6.1 Matières toxiques.  
 · **Label** 6.1 (3)

· **14.4 Groupe d'emballage**

· **ADR, IMDG, IATA** II

· **14.5 Dangers pour l'environnement:** Non applicable.

· **14.6 Précautions particulières à prendre par l'utilisateur** Attention: Matières toxiques.

· **14.7 Transport en vrac conformément à l'annexe II de la convention Marpol et au recueil IBC** Non applicable.

· **"Règlement type" de l'ONU:** UN 2929 LIQUIDE ORGANIQUE TOXIQUE, INFLAMMABLE, N.S.A., 6.1 (3), 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** Aucun des composants n'est compris.
- **Catégorie SEVESO O2** Substances et mélanges qui, au contact de l'eau, dégagent des gaz inflammables
- **Quantité seuil (tonnes) pour l'application des exigences relatives au seuil bas** 100 t
- **Quantité seuil (tonnes) pour l'application des exigences relatives au seuil haut** 500 t
- **RÈGLEMENT (CE) N° 1907/2006 ANNEXE XVII** Conditions de limitation: 3, 40, 69

· **Directive 2011/65/UE relative à la limitation de l'utilisation de certaines substances dangereuses dans les équipements électriques et électroniques – Annexe II**

Aucun des composants n'est compris.

(suite page 9)

# Fiche de données de sécurité

## selon 1907/2006/CE, Article 31

Date d'impression : 13.05.2022

Révision: 13.05.2022

**Nom du produit: Aniline-Alcohol Solution**

(suite de la page 8)

· **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)**

Aucun des composants n'est compris.

· **Annexe II - PRÉCURSEURS D'EXPLOSIFS DEVANT FAIRE L'OBJET D'UN SIGNALLEMENT**

Aucun des composants n'est compris.

· **Règlement (CE) n° 273/2004 relatif aux précurseurs de drogues**

Aucun des composants n'est compris.

· **Règlement (CE) n° 111/2005 fixant des règles pour la surveillance du commerce des précurseurs des drogues entre la Communauté et les pays tiers**

Aucun des composants n'est compris.

· **Prescriptions nationales:**

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

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

64-17-5	éthanol
67-56-1	méthanol

· **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.

· **Phrases importantes**

H225 Liquide et vapeurs très inflammables.

H301 Toxique en cas d'ingestion.

H302 Nocif en cas d'ingestion.

H311 Toxique par contact cutané.

H312 Nocif par contact cutané.

H317 Peut provoquer une allergie cutanée.

H318 Provoque de graves lésions des yeux.

H331 Toxique par inhalation.

H332 Nocif par inhalation.

H341 Susceptible d'induire des anomalies génétiques.

H351 Susceptible de provoquer le cancer.

H370 Risque avéré d'effets graves pour les organes.

H372 Risque avéré d'effets graves pour les organes à la suite d'expositions répétées ou d'une exposition prolongée.

H400 Très toxique pour les organismes aquatiques.

· **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

ELINCS: European List of Notified Chemical Substances

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

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

(suite page 10)

**Fiche de données de sécurité**  
selon 1907/2006/CE, Article 31

Date d'impression : 13.05.2022

Révision: 13.05.2022

**Nom du produit: Aniline-Alcohol Solution**

(suite de la page 9)

*Flam. Liq. 2: Liquides inflammables – Catégorie 2**Water-react. 1: Substances et mélanges qui, au contact de l'eau, dégagent des gaz inflammables – Catégorie 1**Acute Tox. 3: Toxicité aiguë – Catégorie 3**Acute Tox. 4: Toxicité aiguë – Catégorie 4**Eye Dam. 1: Lésions oculaires graves/irritation oculaire – Catégorie 1**Eye Irrit. 2: Lésions oculaires graves/irritation oculaire – Catégorie 2**Skin Sens. 1: Sensibilisation cutanée – Catégorie 1**Muta. 2: Mutagénicité sur les cellules germinales – Catégorie 2**Carc. 2: Cancérogénicité – Catégorie 2**STOT SE 1: Toxicité spécifique pour certains organes cibles (exposition unique) – Catégorie 1**STOT SE 2: Toxicité spécifique pour certains organes cibles (exposition unique) – Catégorie 2**STOT RE 1: Toxicité spécifique pour certains organes cibles (exposition répétée) – Catégorie 1**Aquatic Acute 1: Dangers pour le milieu aquatique- toxicité aiguë pour le milieu aquatique – Catégorie 1*

FR

# Sicherheitsdatenblatt

## gemäß 1907/2006/EG, Artikel 31

Druckdatum: 13.05.2022

überarbeitet am: 13.05.2022

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

- **1.1 Produktidentifikator**
- **Handelsname:** Aniline-Alcohol Solution
- **Artikelnummer:** 26450-02
- **UFI:** NSD5-50FR-H00K-D38F
- **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](mailto:info@emsdiasum.com)  
[www.emsdiasum.com](http://www.emsdiasum.com)  
  
Science Services GmbH  
Unterhachinger Str. 75  
81737 München Germany  
  
Tel: +49(0)89 18 93 668-0  
[safety@scienceservices.de](mailto:safety@scienceservices.de)  
  
Deutschland: +49 (0)89 19240, 24h Giftnotruf Munchen, [www.toxinfo.org](http://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**



GHS02 Flamme

Water-react. 1 H260 In Berührung mit Wasser entstehen entzündbare Gase, die sich spontan entzünden können.



GHS08 Gesundheitsgefahr

- |           |                                                                     |
|-----------|---------------------------------------------------------------------|
| Muta. 2   | H341 Kann vermutlich genetische Defekte verursachen.                |
| Carc. 2   | H351 Kann vermutlich Krebs erzeugen.                                |
| STOT SE 2 | H371 Kann das zentrale Nervensystem und die Sehorgane schädigen.    |
| STOT RE 1 | H372 Schädigt die Organe bei längerer oder wiederholter Exposition. |

(Fortsetzung auf Seite 2)

# Sicherheitsdatenblatt

## gemäß 1907/2006/EG, Artikel 31

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**Handelsname: Aniline-Alcohol Solution**

(Fortsetzung von Seite 1)



GHS07

Eye Irrit. 2 H319 Verursacht schwere Augenreizung.  
 Skin Sens. 1 H317 Kann allergische Hautreaktionen verursachen.

### · 2.2 Kennzeichnungselemente

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

Das Produkt ist gemäß CLP-Verordnung eingestuft und gekennzeichnet.

#### · Gefahrenpiktogramme



GHS02 GHS07 GHS08

#### · Signalwort Gefahr

#### · Gefahrbestimmende Komponenten zur Etikettierung:

Anilin  
 Methanol

#### · Gefahrenhinweise

H260 In Berührung mit Wasser entstehen entzündbare Gase, die sich spontan entzünden können.  
 H319 Verursacht schwere Augenreizung.  
 H317 Kann allergische Hautreaktionen verursachen.  
 H341 Kann vermutlich genetische Defekte verursachen.  
 H351 Kann vermutlich Krebs erzeugen.  
 H371 Kann das zentrale Nervensystem und die Sehorgane schädigen.  
 H372 Schädigt die Organe bei längerer oder wiederholter Exposition.

#### · Sicherheitshinweise

P223 Keinen Kontakt mit Wasser zulassen.  
 P231+P232 Inhalt unter inertem Gas handhaben und aufbewahren. Vor Feuchtigkeit schützen.  
 P260 Staub/Rauch/Gas/Nebel/Dampf/Aerosol nicht einatmen.  
 P305+P351+P338 BEI KONTAKT MIT DEN AUGEN: Einige Minuten lang behutsam mit Wasser spülen.  
 Eventuell vorhandene Kontaktlinsen nach Möglichkeit entfernen. Weiter spülen.  
 P405 Unter Verschluss aufbewahren.  
 P501 Entsorgung des Inhalts / des Behälters gemäß den örtlichen / regionalen / nationalen / internationalen Vorschriften.

### · 2.3 Sonstige Gefahren

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

· **PBT:** Nicht anwendbar.  
 · **vPvB:** Nicht anwendbar.

## ABSCHNITT 3: Zusammensetzung/Angaben zu Bestandteilen

### · 3.2 Chemische Charakterisierung: Gemische

· **Beschreibung:** Gemisch aus nachfolgend angeführten Stoffen mit ungefährlichen Beimengungen.

#### · Gefährliche Inhaltsstoffe:

CAS: 64-17-5	Ethanol	>50-≤100%
EINECS: 200-578-6	Flam. Liq. 2, H225	
CAS: 67-56-1	Methanol	>2,5-≤10%
EINECS: 200-659-6	Flam. Liq. 2, H225;  STOT SE 1, H370;  Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332	

(Fortsetzung auf Seite 3)

# Sicherheitsdatenblatt










## gemäß 1907/2006/EG, Artikel 31

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**Handelsname: Aniline-Alcohol Solution**

(Fortsetzung von Seite 2)

CAS: 62-53-3	Anilin	≤2,5%
EINECS: 200-539-3	 Acute Tox. 3, H301;  Acute Tox. 3, H311;  Acute Tox. 3, H331;  Muta. 2, H341;  Carc. 2, H351;  STOT RE 1, H372;  Eye Dam. 1, H318;  Aquatic Acute 1, H400;  Skin Sens. 1, H317	

- **SVHC**

64-17-5 Ethanol

67-56-1 Methanol

- **Zusätzliche Hinweise:** Der Wortlaut der angeführten Gefahrenhinweise ist dem Abschnitt 16 zu entnehmen.

### ABSCHNITT 4: Erste-Hilfe-Maßnahmen

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

- **Allgemeine Hinweise:**

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

- **Nach Einatmen:**

Reichlich Frischluftzufuhr und sicherheitshalber Arzt aufsuchen.

Bei Bewusstlosigkeit Lagerung und Transport in stabiler Seitenlage.

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

- **Nach Augenkontakt:**

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

- **Nach Verschlucken:** Bei anhaltenden Beschwerden Arzt konsultieren.

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

Keine weiteren relevanten Informationen verfügbar.

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

Keine weiteren relevanten Informationen verfügbar.

### ABSCHNITT 5: Maßnahmen zur Brandbekämpfung

- **5.1 Löschmittel**

- **Geeignete Löschmittel:** Feuerlöschmaßnahmen auf die Umgebung abstimmen.

- **Aus Sicherheitsgründen ungeeignete Löschmittel:** Wasser

- **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**  
Schutzausrüstung tragen. Ungeschützte Personen fernhalten.

- **6.2 Umweltschutzmaßnahmen:**

Bei Eindringen in Gewässer oder Kanalisation zuständige Behörden benachrichtigen.

Mit viel Wasser verdünnen.

Nicht in die Kanalisation/Oberflächenwasser/Grundwasser gelangen lassen.

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

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

Kontaminiertes Material als Abfall nach Abschnitt 13 entsorgen.

Für ausreichende Lüftung sorgen.

(Fortsetzung auf Seite 4)

# Sicherheitsdatenblatt

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(Fortsetzung von Seite 3)

Nicht mit Wasser oder wässrigen Reinigungsmitteln wegspülen.

· **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.

Aerosolbildung vermeiden.

· **Hinweise zum Brand- und Explosionsschutz:** Zündquellen fernhalten - nicht rauchen.

· **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.

In gut verschlossenen Gebinden kühl und trocken lagern.

· **Lagerklasse:**

· **Klassifizierung nach Betriebssicherheitsverordnung (BetrSichV):**

Stoffe oder Gemische, die bei Berührung mit Wasser entzündbare Gase abgeben

· **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:**

**64-17-5 Ethanol**

AGW Langzeitwert: 380 mg/m<sup>3</sup>, 200 ml/m<sup>3</sup>  
4(II);DFG, Y

**67-56-1 Methanol**

AGW Langzeitwert: 130 mg/m<sup>3</sup>, 100 ml/m<sup>3</sup>  
2(II);DFG, EU, H, Y

**62-53-3 Anilin**

AGW Langzeitwert: 7,7 mg/m<sup>3</sup>, 2 ml/m<sup>3</sup>  
2(II);DFG, H, Y, Sh, 11

· **Bestandteile mit biologischen Grenzwerten:**

**67-56-1 Methanol**

BGW 30 mg/l

Untersuchungsmaterial: Urin

Probennahmezeitpunkt: bei Langzeitexposition: am Schichtende nach mehreren vorangegangenen Schichten, Expositionsende bzw. Schichtende

Parameter: Methanol

(Fortsetzung auf Seite 5)



# Sicherheitsdatenblatt

## gemäß 1907/2006/EG, Artikel 31

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**Handelsname: Aniline-Alcohol Solution**

(Fortsetzung von Seite 4)

**62-53-3 Anilin**
**BGW** 500 µg/l

*Untersuchungsmaterial: Urin*
*Probennahmezeitpunkt: Expositionsende bzw. Schichtende, bei Langzeitexposition: am Schichtende nach mehreren vorangegangenen Schichten*
*Parameter: Anilin (nach Hydrolyse)*

· **Zusätzliche Hinweise:** Als Grundlage dienen die bei der Erstellung gültigen Listen.

· **8.2 Begrenzung und Überwachung der Exposition**

· **Persönliche Schutzausrüstung:**

· **Allgemeine Schutz- und Hygienemaßnahmen:**

*Von Nahrungsmitteln, Getränken und Futtermitteln fernhalten.*

*Beschmutzte, getränkte Kleidung sofort ausziehen.*

*Vor den Pausen und bei Arbeitsende Hände waschen.*

*Berührung mit den Augen vermeiden.*

*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. Da das Produkt eine Zubereitung aus mehreren Stoffen darstellt, ist die Beständigkeit von Handschuhmaterialien nicht vorausberechenbar und muß deshalb vor dem Einsatz überprüft werden.*

· **Durchdringungszeit des Handschuhmaterials**

*Die genaue Durchbruchzeit ist beim Schutzhandschuhhersteller zu erfahren und einzuhalten.*

· **Augenschutz:**



Dichtschließende Schutzbrille

## ABSCHNITT 9: Physikalische und chemische Eigenschaften

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

· **Allgemeine Angaben**

· **Aussehen:**

**Form:** Flüssigkeit

**Farbe:** Klar

· **Geruch:** Alkoholartig

· **Geruchsschwelle:** Nicht bestimmt.

(Fortsetzung auf Seite 6)

# Sicherheitsdatenblatt

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(Fortsetzung von Seite 5)

· <b>pH-Wert bei 20 °C:</b>	6,5-9
· <b>Zustandsänderung</b> <b>Schmelzpunkt/Gefrierpunkt:</b>	Nicht bestimmt.
<b>Siedebeginn und Siedebereich:</b>	100 °C
· <b>Flammpunkt:</b>	Nicht anwendbar.
· <b>Entzündbarkeit (fest, gasförmig):</b>	Nicht anwendbar.
· <b>Zersetzungstemperatur:</b>	Nicht bestimmt.
· <b>Selbstentzündungstemperatur:</b>	Selbstentzündlich an der Luft.
· <b>Explosive Eigenschaften:</b>	Nicht bestimmt.
· <b>Explosionsgrenzen:</b> <b>Untere:</b>	Nicht bestimmt.
<b>Obere:</b>	Nicht bestimmt.
· <b>Dampfdruck:</b>	Nicht bestimmt.
· <b>Dichte:</b>	Nicht bestimmt.
· <b>Relative Dichte</b>	Nicht bestimmt.
· <b>Dampfdichte</b>	Nicht bestimmt.
· <b>Verdampfungsgeschwindigkeit</b>	Nicht bestimmt.
· <b>Löslichkeit in / Mischbarkeit mit Wasser:</b>	Vollständig mischbar.
· <b>Verteilungskoeffizient: n-Octanol/Wasser:</b>	Nicht bestimmt.
· <b>Viskosität:</b> <b>Dynamisch:</b>	Nicht bestimmt.
<b>Kinematisch:</b>	Nicht bestimmt.
· <b>Lösemittelgehalt:</b> <b>Organische Lösemittel:</b>	89,5 %
<b>Wasser:</b>	9,5 %
<b>VOC (EU)</b>	89,50 %
· <b>Festkörpergehalt:</b>	0,0 %
· <b>9.2 Sonstige Angaben</b>	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** Kontakt mit Wasser setzt brennbare Gase frei.
- **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.

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(Fortsetzung auf Seite 7)

# Sicherheitsdatenblatt

## gemäß 1907/2006/EG, Artikel 31

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Handelsname: Aniline-Alcohol Solution

(Fortsetzung von Seite 6)

### ABSCHNITT 11: Toxikologische Angaben

- **11.1 Angaben zu toxikologischen Wirkungen**
- **Akute Toxizität** Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.

- **Einstufungsrelevante LD/LC50-Werte:**

#### 67-56-1 Methanol

Oral	LD50	5.628 mg/kg (rat)
Dermal	LD50	15.800 mg/kg (rabbit)

#### 62-53-3 Anilin

Oral	LD50	250 mg/kg (rat)
Dermal	LD50	820 mg/kg (rabbit)
Inhalativ	LC50/4 h	175 mg/l (mouse)

- **Primäre Reizwirkung:**
- **Ätz-/Reizwirkung auf die Haut** Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- **Schwere Augenschädigung/-reizung**  
Verursacht schwere Augenreizung.
- **Sensibilisierung der Atemwege/Haut**  
Kann allergische Hautreaktionen verursachen.
- **Zusätzliche toxikologische Hinweise:**
- **CMR-Wirkungen (krebserzeugende, erbgutverändernde und fortpflanzungsgefährdende Wirkung)**
- **Keimzell-Mutagenität**  
Kann vermutlich genetische Defekte verursachen.
- **Karzinogenität**  
Kann vermutlich Krebs erzeugen.
- **Reproduktionstoxizität** Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- **Spezifische Zielorgan-Toxizität bei einmaliger Exposition**  
Kann das zentrale Nervensystem und die Sehorgane schädigen.
- **Spezifische Zielorgan-Toxizität bei wiederholter Exposition**  
Schädigt die Organe bei längerer oder wiederholter Exposition.
- **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.
- **Ökotoxische Wirkungen:**
- **Bemerkung:** Schädlich für Fische.
- **Weitere ökologische Hinweise:**
- **Allgemeine Hinweise:**  
Wassergefährdungsklasse 1 (Selbsteinstufung): schwach wassergefährdend  
Nicht unverdünnt bzw. in größeren Mengen in das Grundwasser, in Gewässer oder in die Kanalisation gelangen lassen.  
schädlich für Wasserorganismen
- **12.5 Ergebnisse der PBT- und vPvB-Beurteilung**
- **PBT:** Nicht anwendbar.
- **vPvB:** Nicht anwendbar.

(Fortsetzung auf Seite 8)

# Sicherheitsdatenblatt

## gemäß 1907/2006/EG, Artikel 31

Druckdatum: 13.05.2022

überarbeitet am: 13.05.2022

**Handelsname: Aniline-Alcohol Solution**







(Fortsetzung von Seite 7)

· **12.6 Andere schädliche Wirkungen** Keine weiteren relevanten Informationen verfügbar.

### ABSCHNITT 13: Hinweise zur Entsorgung

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

### ABSCHNITT 14: Angaben zum Transport

- |                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>· <b>14.1 UN-Nummer</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>                                                                                                                                                                                                                                                | UN2929                                                                                                                                                          |
| <ul style="list-style-type: none"> <li>· <b>14.2 Ordnungsgemäße UN-Versandbezeichnung</b></li> <li>· <b>ADR</b></li> <li>· <b>IMDG, IATA</b></li> </ul>                                                                                                                                                                                                    | 2929 GIFTIGER ORGANISCHER FLÜSSIGER STOFF, ENTZÜNDBAR, N.A.G.<br>TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S.                                                       |
| <ul style="list-style-type: none"> <li>· <b>14.3 Transportgefahrenklassen</b></li> <li>· <b>ADR</b></li> </ul> <div style="display: flex; align-items: center; gap: 10px;">   </div> | <ul style="list-style-type: none"> <li>· <b>Klasse</b></li> <li>· <b>Gefahrzettel</b></li> </ul> <p style="margin-left: 20px;">6.1 Giftige Stoffe<br/>6.1+3</p> |
| <ul style="list-style-type: none"> <li>· <b>IMDG</b></li> </ul> <div style="display: flex; align-items: center; gap: 10px;">   </div>                                                | <ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul> <p style="margin-left: 20px;">6.1 Giftige Stoffe<br/>6.1/3</p>         |
| <ul style="list-style-type: none"> <li>· <b>IATA</b></li> </ul> <div style="display: flex; align-items: center; gap: 10px;">   </div>                                                | <ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul> <p style="margin-left: 20px;">6.1 Giftige Stoffe<br/>6.1 (3)</p>       |
| <ul style="list-style-type: none"> <li>· <b>14.4 Verpackungsgruppe</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>                                                                                                                                                                                                                                        | II                                                                                                                                                              |
| <ul style="list-style-type: none"> <li>· <b>14.5 Umweltgefahren:</b></li> </ul>                                                                                                                                                                                                                                                                            | Nicht anwendbar.                                                                                                                                                |

(Fortsetzung auf Seite 9)

# Sicherheitsdatenblatt

## gemäß 1907/2006/EG, Artikel 31

Druckdatum: 13.05.2022

überarbeitet am: 13.05.2022

**Handelsname: Aniline-Alcohol Solution**

(Fortsetzung von Seite 8)

- **14.6 Besondere Vorsichtsmaßnahmen für den Verwender** Achtung: Giftige Stoffe
- **14.7 Massengutbeförderung gemäß Anhang II des MARPOL-Übereinkommens und gemäß IBC-Code** Nicht anwendbar.
- **UN "Model Regulation":** UN 2929 GIFTIGER ORGANISCHER FLÜSSIGER STOFF, ENTZÜNDBAR, N.A.G., 6.1 (3), 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** Keiner der Inhaltsstoffe ist enthalten.
- **Seveso-Kategorie O2** Stoffe und Gemische, die bei Berührung mit Wasser entzündbare Gase entwickeln
- **Mengenschwelle (in Tonnen) für die Anwendung in Betrieben der unteren Klasse** 100 t
- **Mengenschwelle (in Tonnen) für die Anwendung in Betrieben der oberen Klasse** 500 t
- **VERORDNUNG (EG) Nr. 1907/2006 ANHANG XVII** Beschränkungsbedingungen: 3, 40, 69
- **Richtlinie 2011/65/EU zur Beschränkung der Verwendung bestimmter gefährlicher Stoffe in Elektro- und Elektronikgeräten – Anhang II**  
Keiner der Inhaltsstoffe ist enthalten.
- **VERORDNUNG (EU) 2019/1148**
- **Anhang I - BESCHRÄNKTE AUSGANGSSTOFFE FÜR EXPLOSIVSTOFFE (Oberer Konzentrationsgrenzwert für eine Genehmigung nach Artikel 5 Absatz 3)**  
Keiner der Inhaltsstoffe ist enthalten.
- **Anhang II - MELDEPFLICHTIGE AUSGANGSSTOFFE FÜR EXPLOSIVSTOFFE**  
Keiner der Inhaltsstoffe ist enthalten.
- **Verordnung (EG) Nr. 273/2004 betreffend Drogenausgangsstoffe**  
Keiner der Inhaltsstoffe ist enthalten.
- **Verordnung (EG) Nr. 111/2005 zur Festlegung von Vorschriften für die Überwachung des Handels mit Drogenaustauschstoffen zwischen der Gemeinschaft und Drittländern**  
Keiner der Inhaltsstoffe ist enthalten.

· **Nationale Vorschriften:**· **Technische Anleitung Luft:**

Klasse	Anteil in %
Wasser	9,5
I	5,5
NK	85,0

- **Wassergefährdungsklasse: WGK 1 (Selbsteinstufung):** schwach wassergefährdend.
- **Sonstige Vorschriften, Beschränkungen und Verbotsverordnungen**  
Das Produkt unterliegt der Anlage 2 der Chemikalienverbotsverordnung (ChemVerbotsV) - Anforderungen in Bezug auf die Abgabe

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

64-17-5	Ethanol
67-56-1	Methanol

(Fortsetzung auf Seite 10)

# Sicherheitsdatenblatt

## gemäß 1907/2006/EG, Artikel 31

Druckdatum: 13.05.2022

überarbeitet am: 13.05.2022

**Handelsname: Aniline-Alcohol Solution**

(Fortsetzung von Seite 9)

 · **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.

**· Relevante Sätze**

- H225 Flüssigkeit und Dampf leicht entzündbar.
- H301 Giftig bei Verschlucken.
- H302 Gesundheitsschädlich bei Verschlucken.
- H311 Giftig bei Hautkontakt.
- H312 Gesundheitsschädlich bei Hautkontakt.
- H317 Kann allergische Hautreaktionen verursachen.
- H318 Verursacht schwere Augenschäden.
- H331 Giftig bei Einatmen.
- H332 Gesundheitsschädlich bei Einatmen.
- H341 Kann vermutlich genetische Defekte verursachen.
- H351 Kann vermutlich Krebs erzeugen.
- H370 Schädigt die Organe.
- H372 Schädigt die Organe bei längerer oder wiederholter Exposition.
- H400 Sehr giftig für Wasserorganismen.

**· 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
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- VOC: Volatile Organic Compounds (USA, EU)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- SVHC: Substances of Very High Concern
- vPvB: very Persistent and very Bioaccumulative
- Flam. Liq. 2: Entzündbare Flüssigkeiten – Kategorie 2
- Water-react. 1: Stoffe und Gemische, die in Berührung mit Wasser entzündbare Gase entwickeln – Kategorie 1
- Acute Tox. 3: Akute Toxizität – Kategorie 3
- Acute Tox. 4: Akute Toxizität – Kategorie 4
- Eye Dam. 1: Schwere Augenschädigung/Augenreizung – Kategorie 1
- Eye Irrit. 2: Schwere Augenschädigung/Augenreizung – Kategorie 2
- Skin Sens. 1: Sensibilisierung der Haut – Kategorie 1
- Muta. 2: Keimzellmutagenität – Kategorie 2
- Carc. 2: Karzinogenität – Kategorie 2
- STOT SE 1: Spezifische Zielorgan-Toxizität (einmalige Exposition) – Kategorie 1
- STOT SE 2: Spezifische Zielorgan-Toxizität (einmalige Exposition) – Kategorie 2
- STOT RE 1: Spezifische Zielorgan-Toxizität (wiederholte Exposition) – Kategorie 1
- Aquatic Acute 1: Gewässergefährdend - akut gewässergefährdend – Kategorie 1

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

Stampato il: 13.05.2022

Revisione: 13.05.2022

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

- **1.1 Identificatore del prodotto**
- **Denominazione commerciale:** Aniline-Alcohol Solution
- **Articolo numero:** 26450-02
- **UFI:** NSD5-50FR-H00K-D38F
- **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](mailto:info@emsdiasum.com)  
[www.emsdiasum.com](http://www.emsdiasum.com)
- **Società Italiana Chimici**  
Via Rio Nell Ellba 140  
00138 Rome, Italy  
Tel: 39 06 8800211  
Fax: 39 30 06 8815313  
Web: [www.sichim.com](http://www.sichim.com)
- **Informazioni fornite da:** Product safety department
- **1.4 Numero telefonico di emergenza:**  
ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887

### SEZIONE 2: Identificazione dei pericoli

- **2.1 Classificazione della sostanza o della miscela**
- **Classificazione secondo il regolamento (CE) n. 1272/2008**



GHS02 fiamma

Water-react. 1 H260 A contatto con l'acqua libera gas infiammabili che possono infiammarsi spontaneamente.



GHS08 pericolo per la salute

Muta. 2 H341 Sospettato di provocare alterazioni genetiche.

Carc. 2 H351 Sospettato di provocare il cancro.

STOT SE 2 H371 Può provocare danni al sistema nervoso centrale e gli organi visivi.

STOT RE 1 H372 Provoca danni agli organi in caso di esposizione prolungata o ripetuta.



GHS07

Eye Irrit. 2 H319 Provoca grave irritazione oculare.

Skin Sens. 1 H317 Può provocare una reazione allergica cutanea.

(continua a pagina 2)

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

Stampato il: 13.05.2022

Revisione: 13.05.2022

**Denominazione commerciale: Aniline-Alcohol Solution**

(Segue da pagina 1)

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

Il prodotto è classificato ed etichettato conformemente al regolamento CLP.

**Pittogrammi di pericolo**

GHS02   GHS07   GHS08

**Avvertenza Pericolo****Componenti pericolosi che ne determinano l'etichettatura:**

anilina

metanolo

**Indicazioni di pericolo**

H260 A contatto con l'acqua libera gas infiammabili che possono infiammarsi spontaneamente.

H319 Provoca grave irritazione oculare.

H317 Può provocare una reazione allergica cutanea.

H341 Sospettato di provocare alterazioni genetiche.

H351 Sospettato di provocare il cancro.

H371 Può provocare danni al sistema nervoso centrale e gli organi visivi.

H372 Provoca danni agli organi in caso di esposizione prolungata o ripetuta.

**Consigli di prudenza**

P223 Evitare qualunque contatto con l'acqua.

P231+P232 Manipolare e conservare in atmosfera di gas inerte. Tenere al riparo dall'umidità.

P260 Non respirare la polvere/i fumi/i gas/la nebbia/i vapori/gli aerosol.

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

P405 Conservare sotto chiave.

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

**2.3 Altri pericoli****Risultati della valutazione PBT e vPvB****PBT:** Non applicabile.**vPvB:** Non applicabile.

### SEZIONE 3: Composizione/informazioni sugli ingredienti

**3.2 Caratteristiche chimiche: Miscela****Descrizione:** Miscela delle seguenti sostanze con additivi non pericolosi.**Sostanze pericolose:**

CAS: 64-17-5 EINECS: 200-578-6	etanolo Flam. Liq. 2, H225	>50-≤100%
CAS: 67-56-1 EINECS: 200-659-6	metanolo Flam. Liq. 2, H225; STOT SE 1, H370; Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332	>2,5-≤10%
CAS: 62-53-3 EINECS: 200-539-3	anilina Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; Muta. 2, H341; Carc. 2, H351; STOT RE 1, H372; Eye Dam. 1, H318; Aquatic Acute 1, H400; Skin Sens. 1, H317	≤2,5%

(continua a pagina 3)



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

Stampato il: 13.05.2022

Revisione: 13.05.2022

**Denominazione commerciale: Aniline-Alcohol Solution**

(Segue da pagina 2)

· <b>SVHC</b>	
64-17-5	etanolo
67-56-1	metanolo

· **Ulteriori indicazioni:** Il testo dell'avvertenza dei pericoli citati può essere appreso dal capitolo 16

#### **SEZIONE 4: Misure di primo soccorso**

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

· **Indicazioni generali:**

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

· **Inalazione:**

*Portare il soggetto in zona molto ben areata e per sicurezza consultare 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. Se persiste il dolore consultare il medico.*

· **Ingestione:** Se il dolore persiste consultare il medico.

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

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

*Non sono disponibili altre informazioni.*

#### **SEZIONE 5: Misure antincendio**

· **5.1 Mezzi di estinzione**

· **Mezzi di estinzione idonei:** *Adottare provvedimenti antiincendio nei dintorni della zona colpita.*

· **Mezzi di estinzione inadatti per motivi di sicurezza:** *Acqua*

· **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**

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

· **6.2 Precauzioni ambientali:**

*In caso di infiltrazione nei corpi d'acqua o nelle fognature avvertire le autorità competenti.*

*Diluire abbondantemente con acqua.*

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

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

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

*Smaltimento del materiale contaminato conformemente al punto 13.*

*Provvedere ad una sufficiente areazione.*

*Non dilavare con acqua o detergenti liquidi.*

· **6.4 Riferimento ad altre sezioni**

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

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

(continua a pagina 4)

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

Stampato il: 13.05.2022

Revisione: 13.05.2022

Denominazione commerciale: Aniline-Alcohol Solution

(Segue da pagina 3)

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.  
Evitare la formazione di aerosol.
- **Indicazioni in caso di incendio ed esplosione:** Tenere lontano da fonti di calore, non fumare.
- **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.  
Conservare in luogo fresco e asciutto in fusti ben chiusi.
- **7.3 Usi finali particolari** Non sono disponibili altre informazioni.

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

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

· **Componenti i cui valori limite devono essere tenuti sotto controllo negli ambienti di lavoro:****64-17-5 etanolo**

TWA	Valore a breve termine: 1884 mg/m <sup>3</sup> , 1000 ppm
A3	

**67-56-1 metanolo**

TWA	Valore a breve termine: 328 mg/m <sup>3</sup> , 250 ppm
	Valore a lungo termine: 262 mg/m <sup>3</sup> , 200 ppm
	Cute, IBE
VL	Valore a lungo termine: 260 mg/m <sup>3</sup> , 200 ppm
	Cute

**62-53-3 anilina**

TWA	Valore a lungo termine: 7,6 mg/m <sup>3</sup> , 2 ppm
	Cute, A3, IBE
VL	Valore a breve termine: 19,35 mg/m <sup>3</sup> , 5 ppm
	Valore a lungo termine: 7,74 mg/m <sup>3</sup> , 2 ppm
	Cute

· **Componenti con valori limite biologici:****67-56-1 metanolo**

IBE	15 mg/l
	Campioni: urine
	Momento del prelievo: a fine turno
	Indicatore biologico: metanolo

(continua a pagina 5)

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

Stampato il: 13.05.2022

Revisione: 13.05.2022

**Denominazione commerciale: Aniline-Alcohol Solution**

(Segue da pagina 4)

**62-53-3 anilina****IBE**

-

Campioni: urine  
 Momento del prelievo: a fine turno  
 Indicatore biologico: Anilina

-

Campioni: emoglobina  
 Momento del prelievo: a fine turno  
 Indicatore biologico: Anilina rilasciata

50 mg/l

Campioni: urine  
 Momento del prelievo: a fine turno  
 Indicatore biologico: p-aminofenolo

· **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.
- Evitare il contatto con gli occhi.
- Evitare il contatto con gli occhi e la pelle.

· **Maschera protettiva:**

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

· **Guanti protettivi:**



Guanti protettivi

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

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

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

· **Materiale dei guanti**

La scelta dei guanti adatti non dipende soltanto dal materiale bensì anche da altre caratteristiche di qualità variabili da un produttore a un altro. Poiché il prodotto rappresenta una formulazione di più sostanze, la stabilità dei materiali dei guanti non è calcolabile in anticipo e deve essere testata prima dell'impiego

· **Tempo di permeazione del materiale dei guanti**

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

· **Occhiali protettivi:**



Occhiali protettivi a tenuta

IT

(continua a pagina 6)

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

Stampato il: 13.05.2022

Revisione: 13.05.2022

Denominazione commerciale: Aniline-Alcohol Solution

(Segue da pagina 5)

### SEZIONE 9: Proprietà fisiche e chimiche

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

##### · Indicazioni generali

##### · Aspetto:

**Forma:** Liquido

**Colore:** Chiaro

· **Odore:** Simile all'alcool

· **Soglia olfattiva:** Non definito.

· **valori di pH a 20 °C:** 6,5-9

##### · Cambiamento di stato

**Punto di fusione/punto di congelamento:** Non definito.

**Punto di ebollizione iniziale e intervallo di ebollizione:** 100 °C

· **Punto di infiammabilità:** Non applicabile.

· **Infiammabilità (solidi, gas):** Non applicabile.

· **Temperatura di decomposizione:** Non definito.

· **Temperatura di autoaccensione:** Spontaneamente infiammabile all'aria.

· **Proprietà esplosive:** Non definito.

##### · 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 definito.

· **Solubilità in/Miscibilità con acqua:**

Completamente miscibile.

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

##### · Viscosità:

**Dinamica:** Non definito.

**Cinematica:** Non definito.

##### · Tenore del solvente:

**Solventi organici:** 89,5 %

**Acqua:** 9,5 %

**VOC (CE)** 89,50 %

**Contenuto solido:** 0,0 %

· **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.

(continua a pagina 7)

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

Stampato il: 13.05.2022

Revisione: 13.05.2022

**Denominazione commerciale: Aniline-Alcohol Solution**

(Segue da pagina 6)

- **10.3 Possibilità di reazioni pericolose** Il contatto con acqua libera gas infiammabili.
- **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** Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.

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

#### 67-56-1 metanolo

Orale	LD50	5.628 mg/kg (rat)
Cutaneo	LD50	15.800 mg/kg (rabbit)

#### 62-53-3 anilina

Orale	LD50	250 mg/kg (rat)
Cutaneo	LD50	820 mg/kg (rabbit)
Per inalazione	LC50/4 h	175 mg/l (mouse)

- **Irritabilità primaria:**
- **Corrosione/irritazione cutanea** Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.
- **Lesioni oculari gravi/irritazioni oculari gravi**  
Provoca grave irritazione oculare.
- **Sensibilizzazione respiratoria o cutanea**  
Può provocare una reazione allergica cutanea.
- **Ulteriori dati tossicologici:**
- **Effetti CMR (cancerogenicità, mutagenicità e tossicità per la riproduzione)**
- **Mutagenicità delle cellule germinali**  
Sospettato di provocare alterazioni genetiche.
- **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**  
Può provocare danni al sistema nervoso centrale e gli organi visivi.
- **Tossicità specifica per organi bersaglio (STOT) - esposizione ripetuta**  
Provoca danni agli organi in caso di esposizione prolungata o ripetuta.
- **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.
- **Effetti tossici per l'ambiente:**
- **Osservazioni:** Nocivo per i pesci.
- **Ulteriori indicazioni in materia ambientale:**
- **Ulteriori indicazioni:**  
Pericolosità per le acque classe I (D) (Autoclassificazione): poco pericoloso  
Non immettere nelle acque freatiche, nei corsi d'acqua o nelle fognature non diluito o in grandi quantità.  
nocivo per gli organismi acquatici

(continua a pagina 8)

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

Stampato il: 13.05.2022

Revisione: 13.05.2022

**Denominazione commerciale: Aniline-Alcohol Solution**







(Segue da pagina 7)

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

### SEZIONE 13: Considerazioni sullo smaltimento

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

### SEZIONE 14: Informazioni sul trasporto

- |                                                                                                                                                                         |                                                                                                    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| · <b>14.1 Numero ONU</b><br>· <b>ADR, IMDG, IATA</b>                                                                                                                    | UN2929                                                                                             |
| · <b>14.2 Nome di spedizione dell'ONU</b><br>· <b>ADR</b><br>· <b>IMDG, IATA</b>                                                                                        | 2929 LIQUIDO ORGANICO TOSSICO, INFIAMMABILE,<br>N.A.S.<br>TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S. |
| · <b>14.3 Classi di pericolo connesso al trasporto</b><br>· <b>ADR</b>                                                                                                  |                                                                                                    |
|   |                                                                                                    |
| · <b>Classe</b><br>· <b>Etichetta</b>                                                                                                                                   | 6.1 Materie tossiche<br>6.1+3                                                                      |
| · <b>IMDG</b>                                                                                                                                                           |                                                                                                    |
|   |                                                                                                    |
| · <b>Class</b><br>· <b>Label</b>                                                                                                                                        | 6.1 Materie tossiche<br>6.1/3                                                                      |
| · <b>IATA</b>                                                                                                                                                           |                                                                                                    |
|   |                                                                                                    |
| · <b>Class</b><br>· <b>Label</b>                                                                                                                                        | 6.1 Materie tossiche<br>6.1 (3)                                                                    |
| · <b>14.4 Gruppo di imballaggio</b><br>· <b>ADR, IMDG, IATA</b>                                                                                                         | II                                                                                                 |

(continua a pagina 9)

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

Stampato il: 13.05.2022

Revisione: 13.05.2022

Denominazione commerciale: Aniline-Alcohol Solution

(Segue da pagina 8)

· 14.5 Pericoli per l'ambiente:	Non applicabile.
· 14.6 Precauzioni speciali per gli utilizzatori	Attenzione: Materie tossiche
· 14.7 Trasporto di rinfuse secondo l'allegato II di MARPOL ed il codice IBC	Non applicabile.
· UN "Model Regulation":	UN 2929 LIQUIDO ORGANICO TOSSICO, INFIAMMABILE, N.A.S., 6.1 (3), 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 Nessuno dei componenti è contenuto.
- Categoria Seveso O2 Sostanze e miscele che, a contatto con l'acqua, liberano gas infiammabili, categoria I
- Quantità limite (tonnellate) ai fini dell'applicazione dei requisiti di soglia inferiore 100 t
- Quantità limite (tonnellate) ai fini dell'applicazione dei requisiti di soglia superiore 500 t
- REGOLAMENTO (CE) n. 1907/2006 ALLEGATO XVII Restrizioni: 3, 40, 69

· Direttiva 2011/65/UE sulla restrizione dell'uso di determinate sostanze pericolose nelle apparecchiature elettriche ed elettroniche - Allegato II

Nessuno dei componenti è contenuto.

· 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)

Nessuno dei componenti è contenuto.

· Allegato II - PRECURSORI DI ESPLOSIVI SOGGETTI A SEGNALAZIONE

Nessuno dei componenti è contenuto.

· Regolamento (CE) n. 273/2004 relativo ai precursori di droghe

Nessuno dei componenti è contenuto.

· Regolamento (CE) N. 111/2005 recante norme per il controllo del commercio dei precursori di droghe tra la Comunità e i paesi terzi

Nessuno dei componenti è contenuto.

· Disposizioni nazionali:

· Istruzione tecnica aria:

Classe	quota in %
NC	89,5

· Ulteriori disposizioni, limitazioni e decreti proibitivi

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

64-17-5 etanolo

67-56-1 metanolo

· 15.2 Valutazione della sicurezza chimica: Una valutazione della sicurezza chimica non è stata effettuata.

(continua a pagina 10)

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

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**Denominazione commerciale: Aniline-Alcohol Solution**

(Segue da pagina 9)

### **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.*

· **Fraasi rilevanti**

- H225 Liquido e vapori facilmente infiammabili.
- H301 Tossico se ingerito.
- H302 Nocivo se ingerito.
- H311 Tossico per contatto con la pelle.
- H312 Nocivo per contatto con la pelle.
- H317 Può provocare una reazione allergica cutanea.
- H318 Provoca gravi lesioni oculari.
- H331 Tossico se inalato.
- H332 Nocivo se inalato.
- H341 Sospettato di provocare alterazioni genetiche.
- H351 Sospettato di provocare il cancro.
- H370 Provoca danni agli organi.
- H372 Provoca danni agli organi in caso di esposizione prolungata o ripetuta.
- H400 Molto tossico per gli organismi acquatici.

· **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
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- VOC: Volatile Organic Compounds (USA, EU)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- SVHC: Substances of Very High Concern
- vPvB: very Persistent and very Bioaccumulative
- Flam. Liq. 2: Liquidi infiammabili – Categoria 2
- Water-react. 1: Sostanze e miscele che, a contatto con l'acqua, sviluppano gas infiammabili – Categoria 1
- Acute Tox. 3: Tossicità acuta – Categoria 3
- Acute Tox. 4: Tossicità acuta – Categoria 4
- Eye Dam. 1: Gravi lesioni oculari/irritazione oculare – Categoria 1
- Eye Irrit. 2: Gravi lesioni oculari/irritazione oculare – Categoria 2
- Skin Sens. 1: Sensibilizzazione della pelle – Categoria 1
- Muta. 2: Mutagenicità sulle cellule germinali – Categoria 2
- Carc. 2: Cancerogenicità – Categoria 2
- STOT SE 1: Tossicità specifica per organi bersaglio (esposizione singola) – Categoria 1
- STOT SE 2: Tossicità specifica per organi bersaglio (esposizione singola) – Categoria 2
- STOT RE 1: Tossicità specifica per organi bersaglio (esposizione ripetuta) – Categoria 1
- Aquatic Acute 1: Pericoloso per l'ambiente acquatico - pericolo acuto per l'ambiente acquatico – Categoria 1



# 물질안전보건자료 GHS에 따라

인쇄일자: 2022.05.13

개정: 2022.05.13

## 1 화학제품과 회사에 관한 정보

- 제품 식별자
- 제품명: **Aniline-Alcohol Solution**
- 상품번호: 26450-02
- 해당 순물질이나 혼합물의 관련 하위용도 및 사용금지용도
- 제품의 권고 용도와 사용상의 제한: Aniline-Alcohol Solution
- 제품의 권고 용도와 사용상의 제한: 실험실 화학품
- 안전데이터표(Safety Data Sheet)내 공급업체 관련 상세 정보
- 제조자/수입자/유통업자 정보:  
 Electron Microscopy Sciences  
 1560 Industry Road  
 USA-Hatfield, PA 19440  
 Tel: 215-412-8400 Fax: 215-412-8450  
 email: info@emsdiasum.com  
 www.emsdiasum.com
- Samchang Commercial Co., Ltd.  
 Yeo Eui Do  
 PO Box 1110  
 Seoul, Korea  
 Tel: 82 2 703 3040  
 Fax: 82 2 717 3298
- 
- Daedok Science, Co. Ltd.  
 34141 E10 Korea Advanced Institute of Science  
 Guseong-Dong, Yuseong-gu, Daejeon,  
 Korea  
 Phone: 82 42 710 2091  
 Fax: 82 42 367 0005  
 Website: www.labsmro.com
- 추가적인 정보 획득 가능: Product safety department
- 비상연락 전화번호:  
 ChemTrec 1-800-424-9300 Contract CCN7661  
 1-703-527-3887

## 2 유해성·위험성

- 순물질 또는 혼합물의 분류



화염

물반응성 물질 및 혼합물 – 구분1      H260 물과 접촉 시 자연발화 가능성이 있는 인화성 가스를 발생시킴



건강에 위험

생식세포 변이원성 – 구분2      H341 유전적인 결함을 일으킬 것으로 의심됨  
 발암성 – 구분2      H351 암을 일으킬 것으로 의심됨  
 특정표적장기 독성 - 1회 노출 – 구분2      H371 중추 신경계 그리고 시각 기관 을 손상시킬 수 있다.  
 특정표적장기 독성 - 반복 노출 – 구분1      H372 장기간 또는 반복노출 되면 장기에 손상을 일으킴

(2 쪽에계속)

# 물질안전보건자료 GHS에 따라

인쇄일자: 2022.05.13

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**제품명: Aniline-Alcohol Solution**

(1 쪽부터계속)



심한 눈 손상성/눈 자극성 – 구분 2      H319 눈에 심한 자극을 일으킴  
 피부 과민성은 – 구분1                      H317 알레르기성 피부 반응을 일으킬 수 있음

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



- 신호어 위험
- 상표상에명확히위험성이표시된성분:
  - 메틸알코올
  - 아닐린
- 유해·위험문구
  - 물과 접촉 시 자연발화 가능성이 있는 인화성 가스를 발생시킴
  - 눈에 심한 자극을 일으킴
  - 알레르기성 피부 반응을 일으킬 수 있음
  - 유전적인 결함을 일으킬 것으로 의심됨
  - 암을 일으킬 것으로 의심됨
  - 중추 신경계 그리고 시각 기관 을 손상시킬 수 있다.
  - 장기간 또는 반복노출 되면 장기에 손상을 일으킴
- 예방조치문구
  - 격렬한 반응 및 화재의 가능성이 있으므로 물과 접촉하지 않게 하시오.
  - 불활성 기체 하에서 취급하고, 습기를 방지하십시오.
  - 분진·흙·가스·미스트·증기·스프레이를 흡입하지 마시오.
  - 눈에 묻으면 몇 분간 물로 조심해서 씻으시오. 가능하면 콘택트렌즈를 제거하십시오. 계속 씻으시오.
  - 밀봉하여 저장하십시오.
  - (지방/지역/국가/국제 규정에 따라) 에 내용물/용기를 폐기하십시오.
- 기타 유해성
- PBT(잔류성, 생물농축성, 독성 물질) 및 vPvB(고 잔류성, 고 생물농축성 물질) 평가 결과
- PBT(잔류성, 생물농축성, 독성 물질): 해당사항 없음.
- vPvB(고 잔류성, 고 생물농축성 물질): 해당사항 없음.

### 3 구성성분의 명칭 및 함유량

- 화학적 특성: 혼합물
- 설명: 무해한 첨가물이 함유된 아래에 열거된 물질로 만들어진 혼합물.

· 위험 요소:

64-17-5	Ethyl alcohol	>50-≤100%
	인화성 액체 – 구분2, H225	

(3 쪽에계속)

# 물질안전보건자료 GHS에 따라

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**제품명: Aniline-Alcohol Solution**

(2 쪽부터 계속)

67-56-1	메틸알코올 ⚠ 인화성 액체 - 구분2, H225; ⚠ 특정표적장기 독성 - 1회 노출 - 구분1, H370; ⚠ 급성 독성 - 경구 - 구분4, H302; 급성 독성 - 경피 - 구분4, H312; 급성 독성 - 흡입 - 구분4, H332	>2.5-≤10%
62-53-3	아닐린 ⚠ 급성 독성 - 경구 - 구분3, H301; 급성 독성 - 경피 - 구분3, H311; 급성 독성 - 흡입 - 구분3, H331; ⚠ 생식세포 변이원성 - 구분2, H341; 발암성 - 구분2, H351; 특정표적장기 독성 - 반복 노출 - 구분1, H372; ⚠ 심한 눈 손상성/눈 자극성 - 구분1, H318; ⚠ 수생환경 유해성 - 급성 - 구분1, H400; ⚠ 피부 과민성은 - 구분1, H317	≤2.5%

## 4 응급조치 요령

**· 응급조치요령 내용**

**· 일반적 정보:**

중독 증상은 몇 시간이 지난 뒤에 발생할 수 있다. 따라서 사고가 발생한 후에 적어도 48 시간 동안은 의료진의 관찰을 받아야 한다.

**· 흡입했을 때:**

신선한 공기를 쐬고 나서 반드시 의료진의 도움을 구한다.  
환자가 의식을 잃었을 경우에는 안전한 자세에서 환자를 운반한다.

**· 피부에 접촉했을 때:** 즉시 물과 비누로 씻고 잘 헹군다.

**· 눈에 들어갔을 때:** 흐르는 물에 눈을 몇 분 동안 씻어내고 나서, 증상이 지속될 경우에는 의사와 상담한다

**· 먹었을 때:** 증상이 지속될 경우에는 의사와 상담한다.

**· 기타 의사의 주의사항:**

· 가장 중요한 급·만성 증상 및 영향 추가적인 정보가 존재하지 않습니다.

· 즉각적인 의료처치 및 특별치료가 필요함을 시사하는 징후 추가적인 정보가 존재하지 않습니다.

## 5 폭발·화재시 대처방법

**· 소화제**

· 적절한 소화제: 주변 환경에 맞는 화재 진화방법을 사용한다.

· 부적절한 소화제: 물

· 본 화학물질이나 혼합물에서 발생하는 특별 유해성 추가적인 정보가 존재하지 않습니다.

**· 소방관에 대한 권고사항**

· 화재 진압 시 착용할 보호구 및 예방조치: 호흡보호장비 설치.

## 6 누출 사고 시 대처방법

· 개인적 예방조치, 보호장비 및 응급처치 절차 안전장비 착용하고, 무방비의 사람은 격리시킨다.

**· 환경 관련 예방조치:**

하천이나 하수도로 유입되었을 경우 해당 관청에 보고한다.

많은 물로 희석시킨다.

하수도망/해수면 위 의물/지하수로 도달하지 않게 한다.

**· 밀폐 및 정화 방법과 소재:**

액체가 혼합된 물질 (모래, 규조토, 산성 결합물, 일반 결합물, 톱밥)에 흡입되도록 한다.

항목 13에 따라 오염된 물질을 쓰레기로 처분한다.

충분한 환기가 되도록 한다.

물이나 묽은 세척제로 씻어 내지 마시오

**· 타 섹션 참조**

안전 관리에 대한 정보는 제7 장을 참고하십시오.

개인 보호 장비에 대한 정보는 제8 장을 참고하십시오.

(4 쪽에 계속)

# 물질안전보건자료 GHS에 따라

인쇄일자: 2022.05.13

개정: 2022.05.13

**제품명: Aniline-Alcohol Solution**

(3 쪽부터계속)

쓰레기 처리에 대한 정보는 제13 장을 참고하십시오.

## 7 취급 및 저장방법

- 취급:
- 안전 취급을 위한 예방조치  
작업장에서는통풍이잘되고/습기제거가잘되게주의한다.  
연무질이형성되는것을피한다.
- 화재 및 폭발 사고 예방대책에 관한 정보: 발 화 요소는 멀 리 둔 다-금 연.
- 혼합위험성 등 안전 저장 조건
- 보관:
- 안전한 저장 방법: 특 별 한 요구사항이 없음.
- 하나의 공동 보관 시설에 대한 보관 관련 정보: 필 요없음
- 보 관 조 건 에 관 한 추가적인 정보:  
용기를새지않게밀폐한채보관한다.  
밀폐된 용기속에서늘 하고 건 조 하 게 보 관 한 다.
- 구체적 최종 사용자 추가적인 정보가 존재하지 않습니다.

## 8 노출방지 및 개인보호구

- 첨단시설 디자인에 대한 추가정보: 더 이 상 의 자료는 없음. 항 목 7 을 참고하 시 오.
- 통제 변수

· 화학물질의 노출기준, 생물학적 노출기준 등:

### 64-17-5 Ethyl alcohol

OELV (KR)	장기간의값: 1000 ppm 발암성 1A
PEL (US)	장기간의값: 1900 mg/m <sup>3</sup> , 1000 ppm
REL (US)	장기간의값: 1900 mg/m <sup>3</sup> , 1000 ppm
TLV (US)	단기간의값: 1000 ppm A3

### 67-56-1 메틸알코올

OELV (KR)	단기간의값: 250 ppm 장기간의값: 200 ppm Skin
IOELV (EU)	장기간의값: 260 mg/m <sup>3</sup> , 200 ppm Skin
PEL (US)	장기간의값: 260 mg/m <sup>3</sup> , 200 ppm
REL (US)	단기간의값: 325 mg/m <sup>3</sup> , 250 ppm 장기간의값: 260 mg/m <sup>3</sup> , 200 ppm Skin
TLV (US)	단기간의값: 250 ppm 장기간의값: 200 ppm Skin; BEI

(5 쪽에계속)

# 물질안전보건자료 GHS에 따라

인쇄일자: 2022.05.13

개정: 2022.05.13

**제품명: Aniline-Alcohol Solution**

(4 쪽부터계속)

**62-53-3 아닐린**

OELV (KR)	장기간의값: 2 ppm Skin, 발암성2, 생식세포 변이원성2
IOELV (EU)	단기간의값: 19.35 mg/m <sup>3</sup> , 5 ppm 장기간의값: 7.74 mg/m <sup>3</sup> , 2 ppm Skin
PEL (US)	장기간의값: 19 mg/m <sup>3</sup> , 5 ppm and Homologues; Skin
REL (US)	And Homologues; See Pocket Guide App. A
TLV (US)	장기간의값: 2 ppm Skin; BEI, A3

· 생물학적 허용값을 갖는 원료:

**67-56-1 메틸알코올**

BEI (US)	15 mg/L Medium: urine Time: end of shift Parameter: Methanol (background, nonspecific)
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**62-53-3 아닐린**

BEI (US)	0.5 mg/L Medium: urine Time: end of shift Parameter: Aniline (with hydrolysis)
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· 추가 정보: 제조할 당시에 유효한 목록을 기초로 사용했다.

- 노출 통제
- 개인 보호구

· 일반적보호조치및위생조치:

- 식료품, 음료수와 사료로부터 멀리 떨어져 놓는다.
- 더러워지거나 음료수가 묻은 옷은 즉시 탈의한다.
- 휴식 전이나 작업이 끝날때마다 손을 씻는다.
- 눈과의 접촉을 피한다.
- 눈과 피부와의 접촉은 피한다.

· 호흡기 보호:

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

· 손 보호:



보호용 장갑

장갑재질은제품 / 원료 / 조제를투과시키지않아야하고, 내구성이있어야한다.  
테스트를하지않았기때문에 제품 / 조제 / 화학 혼합물에 적합한 장갑재질에 대한 추천이 없다.  
투과 시간, 침투율과저하를고려해서 장갑 재료를 선택한다.

· 장갑의재료

적합한장갑의선택은재질차이뿐아니라폼질기준의차이도고려하여이루어져야하고제조업종에따라서도다르게선정되어야한다 .  
제품은다양한재료로부터의조제로이루어지는것이기때문에 , 장갑재질의안정성은사전에예측되어질수있는것이아니고 ,  
반드시사용전에 (그안전성이) 체크되어야한다.

· 장갑재료의 투과시간 정확한관통시간은보호장갑제조자에의하여인지되고, 준수되어야한다.

(6 쪽에계속)

# 물질안전보건자료 GHS에 따라

인쇄일자: 2022.05.13

개정: 2022.05.13

**제품명: Aniline-Alcohol Solution**

· 눈 보호:

(5 쪽부터 계속)



· 꼭조이는보안경

## 9 물리화학적 특성

· 기본 물리 및 화학적 특성에 대한 정보	
· 일반정보	
· 외형	
· 물리적 상태:	액체
· 색:	밝은
· 냄새:	알코올종류의
· 후각역치	알맞지않다.
· pH 의경우 20 °C:	6.5-9
· 상태변화	
· 녹는점/어는점:	맞지않는
· 초기 끓는점과 끓는점 범위:	100 °C
· 인화점:	해당사항 없음.
· 인화성(고체, 기체):	해당사항 없음.
· 분해 온도:	알맞지않다.
· 자기점화:	공기중에서자연발화하는
· 폭발위험:	알맞지않다.
· 인화 또는 폭발 범위의 상한/하한	
· 아래로:	알맞지않다.
· 위로:	알맞지않다.
· 증기압:	알맞지않다.
· 밀도:	맞지않는다.
· 비중:	알맞지않다.
· 증기밀도:	알맞지않다.
· 증발 속도:	알맞지않다.
· 용해도:	
· 물:	완전히혼합할수있는
· n 옥탄올/물 분배계수:	알맞지않다.
· 점도:	
· 역학성:	알맞지않다.
· 동점성:	알맞지않다.
· 용매내용물	
· 유기용매:	89.5 %
· 물:	9.5 %
· VOC (EU)	89.50 %
· 고체의 함량:	0.0 %

(7 쪽에 계속)

물질안전보건자료  
GHS에 따라

인쇄일자: 2022.05.13

개정: 2022.05.13

제품명: Aniline-Alcohol Solution

(6 쪽부터계속)

· 기타 정보                                  추가적인 정보가 존재하지 않습니다.

10 안정성 및 반응성

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

11 독성에 관한 정보

- 독성학적 영향에 대한 정보
- 급성 독성:

· LD/LC50-수치에 따른 분류:

67-56-1 메틸알코올

구강의	LD50	5,628 mg/kg (rat)
피부의	LD50	15,800 mg/kg (rabbit)

62-53-3 아닐린

구강의	LD50	250 mg/kg (rat)
피부의	LD50	820 mg/kg (rabbit)
흡입의	LC50/4 h	175 mg/l (mouse)

- 일차적 자극 효과:
- 피부 부식성 또는 자극성: 무자극
- 심한 눈 손상 또는 자극성: 자극
- 감각화: 피부접촉을통하여감각화가가능성있다.
- 추가적인 독성에 관한 정보:  
이제품은유럽공동체의공통분류원칙의합법적인절차에근거하여최근에발효된원고에서아래위험들의사전준비에대하여제시하고있다.  
건강에해로운  
자극적인
- 다음 종류의 잠재적인 효과에 대한 정보
- CMR-효과 (암 유발, 돌연변이성 그리고 생식 독성)  
생식세포 변이원성- 구분2, 발암성 - 구분2

12 환경에 미치는 영향

- 독성
- 수생독성: 추가적인 정보가 존재하지 않습니다.
- 지속성 및 분해성 추가적인 정보가 존재하지 않습니다.
- 환경 시스템에서의 행동:
- 생물농축 잠재성 추가적인 정보가 존재하지 않습니다.
- 토양내 이동성 추가적인 정보가 존재하지 않습니다.
- 생태독성:
- 의견: 어 류 에 해 로움

(8 쪽에계속)

# 물질안전보건자료 GHS에 따라

인쇄일자: 2022.05.13

개정: 2022.05.13

**제품명: Aniline-Alcohol Solution**







(7 쪽부터계속)

- 추가적인 생태학 정보:
- 일반 특징:
  - 수질오염등급 1 (자체등급분류): 약하게수질오염이된
  - 희석시키지않은채대량으로지하수나, 하천으로그리고하수도망에도달하지않게한다.
  - 물속의유기체에해가되는것
- PBT(잔류성, 생물농축성, 독성 물질) 및 vPvB(고 잔류성, 고 생물농축성 물질) 평가 결과
- PBT(잔류성, 생물농축성, 독성 물질): 해당사항 없음.
- vPvB(고 잔류성, 고 생물농축성 물질): 해당사항 없음.
- 기타 부작용 추가적인 정보가 존재하지 않습니다.

## 13 폐기시 주의사항

- 폐기물 처리 방법
- 권고: 생활쓰레기와함께처리되어서는안된다. 하수도망으로유입되어서는안된다.
- 비위생적 포장:
- 권고: 당국의지침에입각한쓰레기처리.
- 추천 세정제: 경우에따라서세제가첨가된물

## 14 운송에 필요한 정보

<ul style="list-style-type: none"> <li>· 유엔 번호</li> <li>· ADR, IMDG, IATA</li> </ul>	UN2929
<ul style="list-style-type: none"> <li>· UN 적정 선적명</li> <li>· ADR</li> <li>· IMDG, IATA</li> </ul>	2929 TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S. TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S.
<ul style="list-style-type: none"> <li>· 교통 위험 클래스</li> <li>· ADR</li> </ul> <div style="display: flex; align-items: center; gap: 10px;">   </div>	6.1 독성물질 6.1+3
<ul style="list-style-type: none"> <li>· IMDG</li> </ul> <div style="display: flex; align-items: center; gap: 10px;">   </div>	6.1 독성물질 6.1/3
<ul style="list-style-type: none"> <li>· IATA</li> </ul> <div style="display: flex; align-items: center; gap: 10px;">   </div>	6.1 독성물질

(9 쪽에계속)



물질안전보건자료  
GHS에 따라

인쇄일자: 2022.05.13

개정: 2022.05.13

제품명: Aniline-Alcohol Solution

(8 쪽부터계속)

· Label	6.1 (3)
· 용기등급	
· ADR, IMDG, IATA	II
· 환경적 유해물질:	해당사항 없음.
· 이용자 특별 예방조치	경고: 독성물질
· MARPOL73/78(선박으로부터의 해양오염방지협약) 부속서2 및 IBC Code(국제선적화물코드)에 따른 벌크(bulk) 운송	해당사항 없음.
· UN "모범 규제":	UN 2929 TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S., 6.1 (3), II

15 법적 규제현황

· 산업안전보건법에 의한 규제:

· 제조 등 금지물질:	
어떠한내용물도 목록화되어있지않다	

· 허가대상물질:	
어떠한내용물도 목록화되어있지않다	

· 관리대상유해물질:	
67-56-1	메틸알코올
62-53-3	아닐린

· 작업환경측정 대상 유해인자		
67-56-1	메틸알코올	1A28
62-53-3	아닐린	1A53

· 특수건강진단 대상 유해인자		
67-56-1	메틸알코올	1A31
62-53-3	아닐린	1A53

· 해당 순물질 또는 혼합물에 대한 안전, 보건 및 환경 규제/법률 추가적인 정보가 존재하지 않습니다.

· Korean Existing Chemical Inventory		
64-17-5	Ethyl alcohol	KE-13217
7732-18-5	물	KE-35400
67-56-1	메틸알코올	KE-23193
62-53-3	아닐린	KE-01180

· 화학물질관리법

· 사고대비물질	
67-56-1	메틸알코올

· 금지물질	
어떠한내용물도 목록화되어있지않다	

· 제한물질	
어떠한내용물도 목록화되어있지않다	

· 유독물질	
67-56-1	메틸알코올

(10 쪽에계속)

# 물질안전보건자료 GHS에 따라

인쇄일자: 2022.05.13

개정: 2022.05.13

**제품명: Aniline-Alcohol Solution**

(9 쪽부터 계속)

62-53-3	아닐린
<b>· 허가물질</b>	
67-56-1	메틸알코올
62-53-3	아닐린
<b>· 위험물안전관리법 (위험물 및 지정수량) 제 4: 400 리터</b>	
<b>· 등록 또는 신고 면제대상 화학물질</b>	
7732-18-5	물
<b>· '21년까지 등록하여야 할 암, 돌연변이, 생식능력 이상을 일으키거나 일으킬 우려가 있는 기존화학물질</b>	
어떠한내용물도목록화되어있지않다	
<b>· 중점관리물질의 지정</b>	
<b>· 표1 중점관리물질(제2조 관련)</b>	
62-53-3	아닐린
<b>· 표2 중점관리물질(제2조 관련)</b>	
어떠한내용물도목록화되어있지않다	

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



GHS02    GHS07    GHS08

- **신호어 위험**
- **상표상에명확히위험성이표시된성분:**  
메틸알코올  
아닐린
- **유해·위험문구**  
물과 접촉 시 자연발화 가능성이 있는 인화성 가스를 발생시킴  
눈에 심한 자극을 일으킴  
알레르기성 피부 반응을 일으킬 수 있음  
유전적인 결함을 일으킬 것으로 의심됨  
암을 일으킬 것으로 의심됨  
중추 신경계 그리고 시각 기관 을 손상시킬 수 있다.  
장기간 또는 반복노출 되면 장기에 손상을 일으킴

- **예방조치문구**  
격렬한 반응 및 화재의 가능성이 있으므로 물과 접촉하지 않게 하시오.  
불활성 기체 하에서 취급하고, 습기를 방지하십시오.  
분진·흙·가스·미스트·증기·스프레이를 흡입하지 마시오.  
눈에 묻으면 몇 분간 물로 조심해서 씻으시오. 가능하면 콘택트렌즈를 제거하십시오. 계속 씻으시오.  
밀봉하여 저장하십시오.  
(지방/지역/국가/국제 규정에 따라) 에 내용물/용기를 폐기하십시오.
- **화학물질 안전성 평가:** 화학물질 안전성 평가가 수행되지 않음

## 16 그 밖의 참고사항

이 보고는 우리 지식에 대한 오늘날의 상태에 대하여 평가하고 있다  
하지만 이 보고서는 생산 특성에 관한 보증은 기술하지 않았으며 계약적인 법률 관계에 기반을 두고 있지 않다

- **담당자:**
- **최초 작성일자:** 2022.05.13

(11 쪽에 계속)

**물질안전보건자료**  
**GHS에 따라**

인쇄일자: 2022.05.13

개정: 2022.05.13

**제품명: Aniline-Alcohol Solution**

(10 쪽부터계속)

· 개정 횟수 및 최종 개정일자: 1 / 2022.05.13

## · 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

ELINCS: European List of Notified Chemical Substances

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

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

KR

# Ficha de datos de seguridad

## según 1907/2006/CE, Artículo 31

fecha de impresión 13.05.2022

Revisión: 13.05.2022

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

- **1.1 Identificador del producto**
- **Nombre comercial:** *Aniline-Alcohol Solution*
- **Número del artículo:** 26450-02
- **UFI:** NSD5-50FR-H00K-D38F
- **1.2 Usos pertinentes identificados de la sustancia o de la mezcla y usos desaconsejados**  
No existen más datos relevantes disponibles.
- **Utilización del producto / de la elaboración** *Sustancias químicas de laboratorio*
- **1.3 Datos del proveedor de la ficha de datos de seguridad**
- **Fabricante/distribuidor:**  
*Electron Microscopy Sciences  
1560 Industry Road  
USA-Hatfield, PA 19440  
Tel: 215-412-8400 Fax: 215-412-8450  
email: info@emsdiasum.com  
www.emsdiasum.com*
- **Aname**  
*C/ Perez Galdos no. 2  
28693 Quijorna  
Madrid, Spain  
Tel: +34.91.816.89.50  
Fax: +34.91.816.85.94  
email: ventas@aname.es*
- **Área de información:** *Product safety department*
- **1.4 Teléfono de emergencia:**  
*ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887*

### SECCIÓN 2: Identificación de los peligros

- **2.1 Clasificación de la sustancia o de la mezcla**
- **Clasificación con arreglo al Reglamento (CE) n° 1272/2008**



GHS02 llama

*Water-react. 1 H260 En contacto con el agua desprende gases inflamables que pueden inflamarse espontáneamente.*



GHS08 peligro para la salud

*Muta. 2 H341 Se sospecha que provoca defectos genéticos.  
Carc. 2 H351 Se sospecha que provoca cáncer.  
STOT SE 2 H371 Puede provocar daños en el sistema nervioso central y los órganos visuales.  
STOT RE 1 H372 Provoca daños en los órganos tras exposiciones prolongadas o repetidas.*



GHS07

*Eye Irrit. 2 H319 Provoca irritación ocular grave.*

( se continua en página 2 )

# Ficha de datos de seguridad según 1907/2006/CE, Artículo 31

fecha de impresión 13.05.2022

Revisión: 13.05.2022

**Nombre comercial: Aniline-Alcohol Solution**

( se continua en página 1 )

Skin Sens. 1 H317 Puede provocar una reacción alérgica en la piel.

· **2.2 Elementos de la etiqueta**

· **Etiquetado con arreglo al Reglamento (CE) nº 1272/2008**

El producto se ha clasificado y etiquetado de conformidad con el reglamento CLP.

· **Pictogramas de peligro**



GHS02 GHS07 GHS08

· **Palabra de advertencia Peligro**

· **Componentes peligrosos a indicar en el etiquetaje:**

anilina

metanol

· **Indicaciones de peligro**

H260 En contacto con el agua desprende gases inflamables que pueden inflamarse espontáneamente.

H319 Provoca irritación ocular grave.

H317 Puede provocar una reacción alérgica en la piel.

H341 Se sospecha que provoca defectos genéticos.

H351 Se sospecha que provoca cáncer.

H371 Puede provocar daños en el sistema nervioso central y los órganos visuales.

H372 Provoca daños en los órganos tras exposiciones prolongadas o repetidas.

· **Consejos de prudencia**

P223 Evitar el contacto con el agua.

P231+P232 Manipular y almacenar el contenido en un medio de gas inerte. Proteger de la humedad.

P260 No respirar el polvo/el humo/el gas/la niebla/los vapores/el aerosol.

P305+P351+P338 EN CASO DE CONTACTO CON LOS OJOS: Enjuagar con agua cuidadosamente durante varios minutos. Quitar las lentes de contacto cuando estén presentes y pueda hacerse con facilidad. Proseguir con el lavado.

P405 Guardar bajo llave.

P501 Eliminar el contenido o el recipiente conforme a la reglamentación local/regional/nacional/internacional.

· **2.3 Otros peligros**

· **Resultados de la valoración PBT y mPmB**

· **PBT:** No aplicable.

· **mPmB:** No aplicable.

## SECCIÓN 3: Composición/información sobre los componentes

· **3.2 Caracterización química: Mezclas**

· **Descripción:** Mezcla formada por las sustancias especificadas a continuación con adiciones no peligrosas.

· **Componentes peligrosos:**

CAS: 64-17-5 EINECS: 200-578-6	etanol Flam. Liq. 2, H225	>50-≤100%
CAS: 67-56-1 EINECS: 200-659-6	metanol Flam. Liq. 2, H225; STOT SE 1, H370; Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332	>2,5-≤10%
CAS: 62-53-3 EINECS: 200-539-3	anilina Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; Muta. 2, H341; Carc. 2, H351; STOT RE 1, H372; Eye Dam. 1, H318; Aquatic Acute 1, H400; Skin Sens. 1, H317	≤2,5%

( se continua en página 3 )

# Ficha de datos de seguridad

## según 1907/2006/CE, Artículo 31

fecha de impresión 13.05.2022

Revisión: 13.05.2022

**Nombre comercial: Aniline-Alcohol Solution**

( se continua en página 2 )

· <b>SVHC</b>	
64-17-5	etanol
67-56-1	metanol

· **Indicaciones adicionales:** El texto de los posibles riesgos aquí indicados se puede consultar en el capítulo 16.

### SECCIÓN 4: Primeros auxilios

· **4.1 Descripción de los primeros auxilios**

· **Instrucciones generales:**

Los síntomas de intoxicación pueden presentarse después de muchas horas, por lo que se requiere una supervisión médica durante un mínimo de 48 horas después del accidente.

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

Suministrar suficiente aire fresco y, para mayor seguridad, consultar el médico.

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:**

Limpia los ojos abiertos durante varios minutos con agua corriente. En caso de trastornos persistentes consultar un médico.

· **En caso de ingestión:** Consultar un médico si los trastornos persisten.

· **4.2 Principales síntomas y efectos, agudos y retardados** No existen más datos relevantes disponibles.

· **4.3 Indicación de toda atención médica y de los tratamientos especiales que deban dispensarse inmediatamente** No existen más datos relevantes disponibles.

### SECCIÓN 5: Medidas de lucha contra incendios

· **5.1 Medios de extinción**

· **Sustancias extintoras apropiadas:** Combatir los incendios con medidas adaptados al ambiente circundante.

· **Sustancias extintoras inapropiadas por razones de seguridad:** Agua

· **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**

Llevar puesto equipo de protección. Mantener alejadas las personas sin protección.

· **6.2 Precauciones relativas al medio ambiente:**

Al penetrar en las aguas o en el alcantarillado, avisar a las autoridades pertinentes.

Diluir con mucha agua.

Evitar que penetre en la canalización /aguas de superficie /agua subterráneas.

· **6.3 Métodos y material de contención y de limpieza:**

Quitar con material absorbente (arena, kieselgur, aglutinante de ácidos, aglutinante universal, aserrín).

Desechar el material contaminado como vertido según ítem 13.

Asegurar suficiente ventilación.

No enjuagar con agua ni productos de limpieza acuosos.

· **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.

( se continua en página 4 )

# Ficha de datos de seguridad

## según 1907/2006/CE, Artículo 31

fecha de impresión 13.05.2022

Revisión: 13.05.2022

**Nombre comercial: Aniline-Alcohol Solution**

( se continua en página 3 )

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.  
 Evitar la formación de aerosoles.*
- **Prevención de incendios y explosiones:** *Mantener alejadas las fuentes de encendido. No fumar.*
- **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.  
 Almacenarlo en envases bien cerrados en un lugar fresco y seco.*
- **7.3 Usos específicos finales** *No existen más datos relevantes disponibles.*

### SECCIÓN 8: Controles de exposición/protección individual

- **8.1 Parámetros de control**
- **Instrucciones adicionales para el acondicionamiento de instalaciones técnicas:**  
*Sin datos adicionales, ver punto 7.*

· **Componentes con valores límite admisibles que deben controlarse en el puesto de trabajo:**

**64-17-5 etanol**

LEP | Valor de corta duración: 1910 mg/m<sup>3</sup>, 1000 ppm  
s

**67-56-1 metanol**

LEP | Valor de larga duración: 266 mg/m<sup>3</sup>, 200 ppm  
vía dérmica, VLB, VLI, r

**62-53-3 anilina**

LEP | Valor de corta duración: 19,35 mg/m<sup>3</sup>, 5 ppm  
Valor de larga duración: 7,74 mg/m<sup>3</sup>, 2 ppm  
Sen, vía dérmica, VLB, VLI

· **Componentes con valores límite biológicos:**

**67-56-1 metanol**

VLB | 15 mg/l  
Muestra: orina  
Momento de Muestero: Final de la jornada laboral  
Indicador Biológico: Metanol

**62-53-3 anilina**

VLB | 50 mg/l  
Muestra: orina  
Momento de Muestero: Final de la jornada laboral  
Indicador Biológico: p-Aminofenol

0,5 mg/l  
Muestra: orina  
Momento de Muestero: Final de la jornada laboral  
Indicador Biológico: Anilina

( se continua en página 5 )

# Ficha de datos de seguridad

## según 1907/2006/CE, Artículo 31

fecha de impresión 13.05.2022

Revisión: 13.05.2022

Nombre comercial: Aniline-Alcohol Solution

( se continua en página 4 )

· **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.

Evitar el contacto con los ojos.

Evitar el contacto con los ojos y la piel.

· **Protección respiratoria:**

Si la exposición va a ser breve o de poca intensidad, colocarse una máscara respiratoria. Para una exposición más intensa o de mayor duración, usar un aparato de respiración autónomo.

· **Protección de manos:**



Guantes de protección

El material del guante deberá ser impermeable y resistente al producto / sustancia / preparado.

Ante la ausencia de tests específicos, no se puede recomendar ningún material específico para guantes de protección contra el producto / preparado / mezcla de sustancias químicas.

Selección del material de los guantes en función de los tiempos de rotura, grado de permeabilidad y degradación.

· **Material de los guantes**

La elección del guante adecuado no depende únicamente del material, sino también de otras características de calidad, que pueden variar de un fabricante a otro. Teniendo en cuenta que el producto está fabricado a partir de diferentes materiales, su calidad no puede ser avaluada de antemano, de modo que los guantes deberán ser controlados antes de su utilización.

· **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:**



Gafas de protección herméticas

### SECCIÓN 9: Propiedades físicas y químicas

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

· **Datos generales**

· **Aspecto:**

Forma: Líquido

Color: Claro

· **Olor:** Similar al del alcohol

· **Umbral olfativo:** No determinado.

· **valor pH a 20 °C:** 6,5-9

· **Cambio de estado**

Punto de fusión/punto de congelación: Indeterminado.

Punto inicial de ebullición e intervalo de ebullición: 100 °C

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

( se continua en página 6 )



# Ficha de datos de seguridad

## según 1907/2006/CE, Artículo 31

fecha de impresión 13.05.2022

Revisión: 13.05.2022

Nombre comercial: Aniline-Alcohol Solution

( se continua en página 5 )

· <b>Inflamabilidad (sólido, gas):</b>	No aplicable.
· <b>Temperatura de descomposición:</b>	No determinado.
· <b>Temperatura de auto-inflamación:</b>	Se inflama espontáneamente en contacto con el aire.
· <b>Propiedades explosivas:</b>	No determinado.
· <b>Límites de explosión:</b>	
<b>Inferior:</b>	No determinado.
<b>Superior:</b>	No determinado.
· <b>Presión de vapor:</b>	No determinado.
· <b>Densidad:</b>	Indeterminado.
· <b>Densidad relativa</b>	No determinado.
· <b>Densidad de vapor</b>	No determinado.
· <b>Tasa de evaporación:</b>	No determinado.
· <b>Solubilidad en / miscibilidad con agua:</b>	Completamente mezclable.
· <b>Coefficiente de reparto: n-octanol/agua:</b>	No determinado.
· <b>Viscosidad:</b>	
<b>Dinámica:</b>	No determinado.
<b>Cinemática:</b>	No determinado.
· <b>Concentración del disolvente:</b>	
<b>Disolventes orgánicos:</b>	89,5 %
<b>Agua:</b>	9,5 %
<b>VOC (CE)</b>	89,50 %
<b>Contenido de cuerpos sólidos:</b>	0,0 %
· <b>9.2 Otros datos</b>	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** Al entrar en contacto con agua se liberan gases inflamables.
- **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** A la vista de los datos disponibles, no se cumplen los criterios de clasificación.

· **Valores LD/LC50 (dosis letal /dosis letal = 50%) relevantes para la clasificación:**

#### 67-56-1 metanol

Oral	LD50	5.628 mg/kg (rat)
Dermal	LD50	15.800 mg/kg (rabbit)

( se continua en página 7 )

# Ficha de datos de seguridad

## según 1907/2006/CE, Artículo 31

fecha de impresión 13.05.2022

Revisión: 13.05.2022

Nombre comercial: Aniline-Alcohol Solution

( se continua en página 6 )

**62-53-3 anilina**

Oral	LD50	250 mg/kg (rat)
Dermal	LD50	820 mg/kg (rabbit)
Inhalatorio	LC50/4 h	175 mg/l (mouse)

- **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**  
Provoca irritación ocular grave.
- **Sensibilización respiratoria o cutánea**  
Puede provocar una reacción alérgica en la piel.
- **Indicaciones toxicológicas adicionales:**
- **Efectos CMR (carcinogenicidad, mutagenicidad y toxicidad para la reproducción)**
- **Mutagenicidad en células germinales**  
Se sospecha que provoca defectos genéticos.
- **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**  
Puede provocar daños en el sistema nervioso central y los órganos visuales.
- **Toxicidad específica en determinados órganos (STOT) – exposición repetida**  
Provoca daños en los órganos tras exposiciones prolongadas o repetidas.
- **Peligro de aspiración** A la vista de los datos disponibles, no se cumplen los criterios de clasificación.

**SECCIÓN 12: Información ecológica**

- **12.1 Toxicidad**
- **Toxicidad acuática:** No existen más datos relevantes disponibles.
- **12.2 Persistencia y degradabilidad** No existen más datos relevantes disponibles.
- **12.3 Potencial de bioacumulación** No existen más datos relevantes disponibles.
- **12.4 Movilidad en el suelo** No existen más datos relevantes disponibles.
- **Efectos ecotóxicos:**
- **Observación:** Nocivo para los peces.
- **Indicaciones medioambientales adicionales:**
- **Indicaciones generales:**  
Nivel de riesgo para el agua 1 (autoclasificación): escasamente peligroso para el agua  
En estado no diluido o no neutralizado, no dejar que se infiltre en aguas subterráneas, aguas superficiales o en alcantarillados.  
nocivo para organismos acuáticos
- **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.

( se continua en página 8 )

**Ficha de datos de seguridad**  
según 1907/2006/CE, Artículo 31

fecha de impresión 13.05.2022

Revisión: 13.05.2022

**Nombre comercial: Aniline-Alcohol Solution**

( se continua en página 7 )

· **Producto de limpieza recomendado:** Agua, eventualmente añadiendo productos de limpieza.

**SECCIÓN 14: Información relativa al transporte**

· **14.1 Número ONU**  
· **ADR, IMDG, IATA**

UN2929

· **14.2 Designación oficial de transporte de las Naciones Unidas**

· **ADR**

2929 LÍQUIDO TÓXICO, INFLAMABLE, ORGÁNICO,  
N.E.P.

· **IMDG, IATA**

TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S.

· **14.3 Clase(s) de peligro para el transporte**

· **ADR**



· **Clase**

6.1 Materias tóxicas

· **Etiqueta**

6.1+3

· **IMDG**



· **Class**

6.1 Materias tóxicas

· **Label**

6.1/3

· **IATA**



· **Class**

6.1 Materias tóxicas

· **Label**

6.1 (3)

· **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

· **14.7 Transporte a granel con arreglo al anexo II del**  
**Convenio MARPOL y el Código IBC**

No aplicable.

· **"Reglamentación Modelo" de la UNECE:**

UN 2929 LÍQUIDO TÓXICO, INFLAMABLE,  
ORGÁNICO, N.E.P., 6.1 (3), II

ES

( se continua en página 9 )

# Ficha de datos de seguridad

## según 1907/2006/CE, Artículo 31

fecha de impresión 13.05.2022

Revisión: 13.05.2022

Nombre comercial: Aniline-Alcohol Solution

( se continua en página 8 )

### 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** ninguno de los componentes está incluido en una lista
- **Categoría Seveso O2** Sustancias y mezclas que, en contacto con el agua, desprenden gases inflamables
- **Cantidad umbral (toneladas) a efectos de aplicación de los requisitos de nivel inferior** 100 t
- **Cantidad umbral (toneladas) a efectos de aplicación de los requisitos de nivel superior** 500 t
- **REGLAMENTO (CE) n° 1907/2006 ANEXO XVII** Restricciones: 3, 40, 69

- **Directiva 2011/65/UE sobre restricciones a la utilización de determinadas sustancias peligrosas en aparatos eléctricos y electrónicos - Anexo II**

ninguno de los componentes está incluido en una lista

- **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)**

ninguno de los componentes está incluido en una lista

- **Anexo II - PRECURSORES DE EXPLOSIVOS NOTIFICABLES**

ninguno de los componentes está incluido en una lista

- **Reglamento (CE) no 273/2004 sobre precursores de drogas**

ninguno de los componentes está incluido en una lista

- **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**

ninguno de los componentes está incluido en una lista

- **Disposiciones nacionales:**

- **Demás disposiciones, limitaciones y decretos prohibitivos**

- **Sustancias altamente preocupantes (SVHC) según REACH, artículo 57**

64-17-5 etanol

67-56-1 metanol

- **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.

- **Frases relevantes**

H225 Líquido y vapores muy inflamables.

H301 Tóxico en caso de ingestión.

H302 Nocivo en caso de ingestión.

H311 Tóxico en contacto con la piel.

H312 Nocivo en contacto con la piel.

H317 Puede provocar una reacción alérgica en la piel.

H318 Provoca lesiones oculares graves.

H331 Tóxico en caso de inhalación.

H332 Nocivo en caso de inhalación.

H341 Se sospecha que provoca defectos genéticos.

H351 Se sospecha que provoca cáncer.

( se continua en página 10 )

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( se continua en página 9 )

*H370 Provoca daños en los órganos.**H372 Provoca daños en los órganos tras exposiciones prolongadas o repetidas.**H400 Muy tóxico para los organismos acuáticos.***· Abreviaturas y acrónimos:***ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)**IMDG: International Maritime Code for Dangerous Goods**IATA: International Air Transport Association**GHS: Globally Harmonised System of Classification and Labelling of Chemicals**EINECS: European Inventory of Existing Commercial Chemical Substances**ELINCS: European List of Notified Chemical Substances**CAS: Chemical Abstracts Service (division of the American Chemical Society)**VOC: Volatile Organic Compounds (USA, EU)**LC50: Lethal concentration, 50 percent**LD50: Lethal dose, 50 percent**PBT: Persistent, Bioaccumulative and Toxic**SVHC: Substances of Very High Concern**vPvB: very Persistent and very Bioaccumulative**Flam. Liq. 2: Líquidos inflamables – Categoría 2**Water-react. 1: Sustancias y mezclas que, en contacto con el agua, desprenden gases inflamables – Categoría 1**Acute Tox. 3: Toxicidad aguda – Categoría 3**Acute Tox. 4: Toxicidad aguda – Categoría 4**Eye Dam. 1: Lesiones oculares graves o irritación ocular – Categoría 1**Eye Irrit. 2: Lesiones oculares graves o irritación ocular – Categoría 2**Skin Sens. 1: Sensibilización cutánea – Categoría 1**Muta. 2: Mutagenicidad en células germinales – Categoría 2**Carc. 2: Carcinogenicidad – Categoría 2**STOT SE 1: Toxicidad específica en determinados órganos ( exposición única) – Categoría 1**STOT SE 2: Toxicidad específica en determinados órganos ( exposición única) – Categoría 2**STOT RE 1: Toxicidad específica en determinados órganos (exposiciones repetidas) – Categoría 1**Aquatic Acute 1: Peligroso para el medio ambiente acuático - peligro acuático agudo – Categoría 1*