

SAFETY DATA SHEET



In accordance with (EU) Nr. 1907/2006

Revision Date: 1.02.2021 replace vers. from 17.01.2019

Tradename: MIXOL® ME 2 Silber (Silver)

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SECTION 1: IDENTIFICATION OF SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1. Product identifier

Tradename: MIXOL® ME 2 Silber (Silver)

1.2. Relevant identified uses of the substances or mixture and uses advised against

Relevante identified uses of the substance or mixture

Industry sector: Industrial Performance Chemicals
Paints, lacquers and varnishes industry
Polymers industry
Printing Inks Industry

Type of use: Colourant preparation

1.3. Details of the supplier of the safety data sheet

Identification of the company:

MIXOL-PRODUKTE
Diebold GmbH
Carl-Zeiss-Str. 17-19
73230 Kirchheim/Teck
Phone: 0049 / 7021 / 950090
Fax: 0049 / 7021 / 56030

Information to substance / mixture:

Division: Technics
Phone: +49(0)7021 / 950090
E-mail: Technik@mixol.de

1.4. Emergency telephone number

GBK Gefahrgut Büro GmbH, Ingelheim, Germany
Emergency CONTACT (24h): +49 6132-84463

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance / mixture

Classification (Regulation (EC) No.1272/2008):

Not a dangerous substance according to GHS.

2.2. Label elements

Labeling (Regulation (EC) No.1272/2008):

Not a dangerous substance or mixture according to the Globally Harmonised System (GHS).

Additional Labelling

EUH208 Contains 1,2-benzisothiazol-3(2H)-one, reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

EUH210 Safety data sheet available on request.

2.3. Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1. Mixtures

Hazardous components

| Chemical Name | CAS-No. EC-No. INDEX No. Registration No. | Classification Regulation (EC) No. 1272/2008) | Concentration (% w/w) |
|---------------|--|---|--------------------------|
| | | | |

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| | | | |
|--|--|---|---------------------|
| Aluminium powder (stabilised) | 7429-90-5 231-072-3 013-002-00-1 01-2119529243-45 | Flam. Sol. 1; H228 | ≥ 25 - < 50 |
| Phosphoric acid, C11-14-isoalkyl esters, C13-rich | 154518-38-4 (52933-07-0) 01-2119976356-25 | Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 2; H411 | ≥ 3 - < 10 |
| 1,2-benzisothiazol-3(2H)-one | 2634-33-5 220-120-9 613-088-00-6 | Acute Tox. 4; H302 Acute Tox. 2; H330 Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 2; H411 | ≥ 0.0025 - < 0.025 |
| reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | 55965-84-9 613-167-00-5 | Acute Tox. 3; H301 Acute Tox. 2; H330 Acute Tox. 2; H310 Skin Corr. 1C; H314 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 | ≥ 0.0002 - < 0.0015 |

For explanation of abbreviations see section 16.

SECTION 4: FIRST AID MEASURES

4.1. Discription of first aid measures

General advice:

No hazards which requires special first aid measures.

Move the victim to fresh air.

Do not leave the victim unattended.

If inhaled:

If unconscious place in recovery position and seek medical advice.

If symptoms persist, call a physician.

In case of skin contact:

Wash off immediately with soap and plenty of water.

In case of eye contact:

Immediately flush eye(s) with plenty of water.

Remove contact lenses.

If swallowed:

Keep respiratory tract clear.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

4.2. Most important symptoms and effects, both acute and delayed

None known.

4.3. Indication of any immediate medical attention and special treatment needed

This information is not available..

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media:

Suitable extinction agents:

Dry sand
ABC powder
Foam

Unsuitable extinguishing media:

Water

5.2. Special hazards arising from the substance or mixture**5.3. Advice for firefighters**Special protective equipment for firefighting:

Wear self contained breathing apparatus for firefighting if necessary.

Further information:

Standard procedure for chemical fires.

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 6: ACCIDENTAL RELEASE MEASURES**6.1. Personal precautions, protective equipment and emergency procedures**Personal precautions

Evacuate personnel to safe areas.

6.2. Environment precautions**6.3. Methods and material for containment and cleaning up**Methods for cleaning up

Use mechanical handling equipment.

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

Wipe up with absorbent material (e.g. cloth, fleece).

Do not flush with water.

Keep in suitable, closed containers for disposal.

6.4. Cross Reference to other sections

For personal protection see section 8.

SECTION 7: HANDLING AND STORAGE**7.1. Precautions for safe handling**Advice on safe handling:

For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the application area.

Advice on protection against fire and explosion:

Normal measures for preventive fire protection.

Hygiene measures:

General industrial hygiene practice.

7.2. Conditions for safe storage, including any incompatibilitiesRequirements for storage areas and containers:

Earthing of containers and apparatuses is essential.

Take measures to prevent the build up of electrostatic charge.

Use explosion-proof equipment. Store in original container.

Electrical installations / working materials must comply with the technological safety standards.

Advice on common storage:

Do not store near acids.

Do not store together with oxidizing and self-igniting products.

Keep away from oxidizing agents and strongly acid or alkaline materials.

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Keep away from oxidizing agents and strongly acid or alkaline materials.
Keep away from oxidizing agents, strongly alkaline and strongly acid materials
in order to avoid exothermic reactions..

Further information on storage conditions:

No decomposition if stored and applied as directed.

7.3. Specific end use(s)

This information is not available.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

Occupational Exposure Limits

| Components | CAS-No. | Value type (Form of exposure) | Control parameters | Basis |
|-------------------------------|-----------|--|----------------------|---------|
| Aluminium powder (stabilized) | 7429-90-5 | TWA (Inhalable) | 10 mg/m ³ | GB EH40 |
| Further information | | The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m-3 8-hour TWA of inhalable dust or 4 mg.m-3 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed to dust above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limits., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used.. | | |
| | | TWA (Respirable fraction) | 4 mg/m ³ | GB EH40 |
| Further information | | The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m-3 8-hour TWA of inhalable dust or 4 mg.m-3 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed to dust above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limits., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used. | | |
| | | TWA (inhalable dust) | 10 mg/m ³ | GB EH40 |
| Further information | | For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/4 General methods for sampling and gravimetric analysis or respirable, thoracic and inhalable aerosols., The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m-3 8-hour TWA of inhalable dust or 4 mg.m-3 8-hour TWA of respirable dust. This means that any dust will be | | |

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| | | | |
|---------------------|--|---------------------|---------|
| | <p>subject to COSHH if people are exposed to dust above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limits., Most industrial dusts contain particles of a wide range of sizes. The behaviour, deposition and fate of any particular particle after entry into the human respiratory system, and the body response that it elicits, depend on the nature and size of the particle. HSE distinguishes two size fractions for limit-setting purposes termed 'inhalable' and 'respirable'. Inhalable dust approximates to the fraction of airborne material that enters the nose and mouth during breathing and is therefore available for deposition in the respiratory tract. Respirable dust approximates to the fraction that penetrates to the gas exchange region of the lung. Fuller definitions and explanatory material are given in MDHS14/4., Where dusts contain components that have their own assigned WEL, all the relevant limits should be complied with., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used.</p> | | |
| | TWA (Respirable dust) | 4 mg/m ³ | GB EH40 |
| Further information | <p>For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/4 General methods for sampling and gravimetric analysis or respirable, thoracic and inhalable aerosols., The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m-3 8-hour TWA of inhalable dust or 4 mg.m-3 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed to dust above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limits., Most industrial dusts contain particles of a wide range of sizes. The behaviour, deposition and fate of any particular particle after entry into the human respiratory system, and the body response that it elicits, depend on the nature and size of the particle. HSE distinguishes two size fractions for limit-setting purposes termed 'inhalable' and 'respirable'. Inhalable dust approximates to the fraction of airborne material that enters the nose and mouth during breathing and is therefore available for deposition in the respiratory tract. Respirable dust approximates to the fraction that penetrates to the gas exchange region of the lung. Fuller definitions and explanatory material are given in MDHS14/4., Where dusts contain components that have their own assigned WEL, all the relevant limits should be complied with., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used.</p> | | |

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Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

| Substance name | End Use | Exposure routes | Potential health effects | Value |
|--|-----------|-----------------|----------------------------|-------------------------|
| aluminium powder (stabilised) | Workers | Inhalation | long term local effects | 3.72 mg/m ³ |
| | Consumers | Oral | long term systemic effects | 3.95 mg/kg |
| Phosphoric acid, C11- 14-isoalkyl esters, C13-rich | Workers | Inhalation | long term systemic effects | 34.94 mg/m ³ |
| | Workers | Skin contact | long term systemic effects | 100.13 mg/kg |
| | Consumers | Inhalation | long term systemic effects | 10.43 mg/m ³ |
| | Consumers | Skin contact | long term systemic effects | 60.08 mg/kg |
| | Consumers | Ingestion | long term systemic effects | 6.01 mg/kg |
| | Workers | Inhalation | long term local effects | 5 mg/m ³ |
| 2,2',2"-nitrilotriethanol | Workers | Skin contact | long term systemic effects | 6.3 mg/kg |
| | Workers | Inhalation | long term systemic effects | 5 mg/m ³ |
| | Consumers | Inhalation | long term local effects | 1.25 mg/m ³ |
| | Consumers | Ingestion | long term systemic effects | 13 mg/kg |
| | Consumers | Skin contact | long term systemic effects | 3.1 mg/kg |
| | Consumers | Inhalation | long term systemic effects | 1.25 mg/m ³ |

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

| Substance name | Environmental Compartment | Value |
|---|---------------------------|--------------|
| aluminium powder (stabilised) | Fresh water | 0.0749 mg/l |
| | clarification plant | 20 mg/l |
| Phosphoric acid, C11-14-isoalkyl esters, C13-rich | Fresh water | 6.31 µg/l |
| | Fresh water sediment | 0.113 mg/kg |
| | Sporadic Release | 63.1 µg/l |
| | Marine water | 0.631 µg/l |
| | Marine sediment | 0.0113 mg/kg |
| | STP | 10 mg/l |

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| | | |
|-------------------------------|----------------------|---------------|
| | Soil | 0.0188 mg/kg |
| 2,2',2''-nitrioltri-ethanol | Soil | 0.151 mg/kg |
| | Fresh water | 0.32 mg/l |
| | Fresh water sediment | 1.7 mg/kg |
| | clarification plant | 10 mg/l |
| | Marine water | 0.032 mg/l |
| | Marine sediment | 0.17 mg/kg |
| 1,2-benziso-thiazol-3(2H)-one | Fresh water | 0.00403 mg/l |
| | Marine water | 0.000403 mg/l |
| | STP | 0.00103 mg/l |

8.2. Exposure controls

Personal protective equipment

Eye protection:

Goggles

Safety glasses

Hand protection:

Material: Solvent resistant gloves (butyl-rubber)

Remarks: Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Recommended preventive skin protection Skin should be washed after contact. The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Respiratory protection:

Use suitable breathing protection if workplace concentration requires.

No personal respiratory protective equipment normally required.

8.3. Environment exposure controls

Water:

The product should not be allowed to enter drains, water courses or soil.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Appearance

| | |
|------------------------------|---------------------|
| Appearance: | liquid |
| Colour: | silver |
| Odour: | characteristic |
| Odour Threshold: | no data available |
| pH: | 6-8 |
| | Concentration: 100% |
| Freezing point: | no data available |
| Boiling point/boiling range: | > 100 °C |
| Flash point: | > 100 °C |
| Evaporation rate: | no data available |

| | |
|---|-------------------|
| Flammibility(solid, gas) | no data available |
| Self-ignition: | no data available |
| Auto-ignition temperature: | no data available |
| Smoldering temperature: | no data available |
| Decomposition temperature: | no data available |
| Explosive properties: | no data available |
| Oxidizing properties: | no data available |
| Upper explosion limit / Upper flammability limit: | no data available |
| Lower explosion limit / Lower flammability limit: | no data available |
| Vapour pressure: | no data available |
| Relative vapour density: | no data available |
| Relative density: | no data available |
| Density: | no data available |
| Bulk density: | no data available |
| Water solubility: | no data available |
| Solubility in other solvents: | no data available |
| Partition coefficient: noctanol/water: | no data available |
| Decomposition temperature: | no data available |
| Viscosity, dynamic: | no data available |
| Viscosity, kinematic: | no data available |
| Flow time: | no data available |

9.2. Other information

No data available

SECTION 10: STABILITY AND REACTIVITY**10.1. Reactivity**

No decomposition if stored and applied as directed.

10.2. Chemical Stability

No decomposition if stored and applied as directed.

10.3. Possibility of hazardous reactionsHazardous reactions:

Contact with acids and alkalis may release hydrogen.

Stable under recommended storage conditions.

10.4. Conditions to avoid

Do not allow evaporation to dryness.

No data available.

10.5. Incompatible MaterialsMaterials to avoid:

Acids

Bases

Oxidizing agents

10.6. Hazardous decomposition productsContact with water or humid air:

This information is not available.

Thermal decomposition:

This information is not available.

SECTION 11: TOXICOLOGIC INFORMATION**11.1. Acute Toxicity**

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Not classified based on available information.

Product:

Acute inhalation toxicit: Acute toxicity estimate: > 20 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

Components:

aluminium powder (stabilised):

Acute inhalation toxicit: LC50 (Rat): > 5 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist

1,2-benzisothiazol-3(2H)-one:

Acute oral toxicity: Assessment: The component/mixture is moderately toxic after single ingestion.

Acute inhalation toxicit: LC50 (Rat): 0.4 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Assessment: The component/mixture is highly toxic after short term inhalation.

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):

Acute oral toxicity: Assessment: The component/mixture is toxic after single ingestion.

Acute inhalation toxicit: Assessment: The component/mixture is highly toxic after short term inhalation.

Acute dermal toxicity Assessment: The component/mixture is highly toxic after single contact with skin.

Skin corrosion/irritation

Not classified based on available information.

Product:

Result: No skin irritation

Components:

Phosphoric acid, C11-14-isoalkyl esters, C13-rich:

Result: Skin irritation

1,2-benzisothiazol-3(2H)-one:

Result: Skin irritation

Serious eye damage/eye irritation:

Not classified based on available information.

Product:

Result: No skin irritation

Components:

Phosphoric acid, C11-14-isoalkyl esters, C13-rich:

Result: Corrosive

1,2-benzisothiazol-3(2H)-one:

Result: Corrosive

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):

Result: Corrosive

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:**1,2-benzisothiazol-3(2H)-one:**

Result: May cause sensitisation by skin contact.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT – single exposure

Not classified based on available information.

STOT – repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Further Information**Product:**

Result: No data available

SECTION 12: ECOLOGICAL INFORMATION**12.1. Toxicity:****Product:****Ecotoxicology Assessment:**

Short-term (acute) aquatic hazard: This product has no known ecotoxicological effects.

Long-term (chronic) aquatic hazard: This product has no known ecotoxicological effects.

Components:**Phosphoric acid, C11-14-isoalkyl esters, C13-rich:**Toxicity to fish: LC50 (Oncorhynchus mykiss (rainbow trout)): 24 mg/l
Exposure time: 96 hToxicity to daphnia and other aquatic invertebrates: EC50 (Daphnia magna (Water flea)): 6.31 mg/l
Exposure time: 48 hToxicity to algae: EC50 (algae): 150 mg/l
Exposure time: 72 h**1,2-benzisothiazol-3(2H)-one:**

M-Factor (Short-term (acute) aquatic hazard): 1

Ecotoxicology Assessment:

Short-term (acute) aquatic hazard: Very toxic to aquatic life.

Long-term (chronic) aquatic hazard: Toxic to aquatic life with long lasting effects.

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):

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M-Factor (Short-term (acute): 100
aquatic hazard)

M-Factor (Long-term (chronic): 100
aquatic hazard)

Ecotoxicology Assessment:

Short-term (acute) aquatic hazard: Very toxic to aquatic life.

Long-term (chronic) aquatic hazard: Toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

Product:

Assessment: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6. Other adverse effects

Product:

Additional ecological information: No data available

SECTION 13: DISPOSAL CONSIDERATIONS

European Waste Catalogue: 08 01 11 - waste paint and varnish containing organic solvents or other dangerous substances.

13.1. Waste treatment methods

Product:

In accordance with local and national regulations.

Contaminated packaging:

Empty containers should be taken to an approved waste handling site for recycling or disposal.

In accordance with local and national regulations.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number

ADR: Not regulated as a dangerous good

IMDG: Not regulated as a dangerous good

IATA: Not permitted for transport

14.2 UN proper shipping name

ADR: Not regulated as a dangerous good

IMDG: Not regulated as a dangerous good

IATA: Not permitted for transport

14.3 Transport hazard class(es)

ADR: Not regulated as a dangerous good

IMDG: Not regulated as a dangerous good

IATA: Not permitted for transport

14.4 Packing group

ADR: Not regulated as a dangerous good

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IMDG: Not regulated as a dangerous good

IATA (Cargo): Not permitted for transport

IATA (Passenger): Not permitted for transport

14.5 Environmental hazards

ADR: Not regulated as a dangerous good

IMDG: Not regulated as a dangerous good

14.6. Special precautions for user

Remarks: Due to the risk of hydrogen development we recommend to refrain from airfreighting this/these product(s).

Not classified as dangerous in the meaning of transport regulations.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Candidate List of Substances of

Very High Concern for Authorisation (Article 59):

Not applicable

Regulation (EC) No 1005/2009 on substances that :
deplete the ozone layer:

Not applicable

Regulation (EU) 2019/1021 on persistent organic :
pollutants (recast):

Not applicable

REACH - Restrictions on the manufacture, placing on :
the market and use of certain dangerous substances,
preparations and articles (Annex XVII)

Conditions of restriction for the
following entries should be
considered:

aluminium powder (stabilised)
(Number on list 40) Phosphoric acid,
C11-14-isoalkyl esters, C13-rich
(Number on list 3) 2-
dimethylaminoethanol (Number on list
40, 3) 2,2'-iminodiethanol (Number on
list 3) reaction mass of 5-chloro-2-
methyl-2H-isothiazol-3-one and 2-
methyl-2H-isothiazol-3-one (3:1)
(Number on list 3) pyridine-2-thiol 1-
oxide, sodium salt (Number on list 3)

15.2. Chemical safety assessment

SECTION 16: OTHER INFORMATION

Full text of H-Statements:

| | |
|------|---|
| H228 | Flammable solid |
| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |
| H310 | Fatal in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H330 | Fatal if inhaled. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |

Full text of other abbreviations

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| | |
|-------------------|--|
| Acute Tox. : | Acute toxicity |
| Aquatic Acute : | Short-term (acute) aquatic hazard |
| Aquatic Chronic : | Long-term (chronic) aquatic hazard |
| Eye Dam. : | Serious eye damage |
| Flam. Sol. : | Flammable solids |
| Skin Corr. : | Skin corrosion |
| Skin Irrit. : | Skin irritation |
| Skin Sens. : | Skin sensitisation |
| GB EH40: | UK. EH40 WEL - Workplace Exposure Limits |
| GB EH40 / TWA: | Long-term exposure limit (8-hour TWA reference period) |

Legend

| | |
|-----------|--|
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| AICS | Australian Inventory of Chemical Substances |
| ASTM | American Society for the Testing of Materials |
| bw | Body weight |
| CLP | Classification Labelling Packaging Regulation Regulation (EC) No 1272/2008 |
| CMR | Carcinogen, Mutagen or Reproductive Toxicant |
| DIN | Standard of the German Institute for Standardisation |
| DMEL | Derived Minimal Effect Level (genotoxic substances) |
| DNEL | Derived No Effect Level |
| DSL | Domestic Substances List (Canada) |
| ECHA | European Chemicals Agency |
| EC-Number | European Community number |
| ECx | Concentration associated with x% response |
| ELx | Loading rate associated with x% response |
| EmS | Emergency Schedule |
| ENCS | Existing and New Chemical Substances (Japan) |
| ErCx | Concentration associated with x% growth rate response |
| GHS | Globally Harmonized System |
| GLP | Good Laboratory Practice |
| IARC | International Agency for Research on Cancer |
| IATA | International Air Transport Association |
| IBC | International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk |
| IC50 | Half maximal inhibitory concentration |
| ICAO | International Civil Aviation Organization |
| IECSC | Inventory of Existing Chemical Substances in China |
| IMDG | International Maritime Dangerous Goods |
| IMO | International Maritime Organization |
| ISHL | Industrial Safety and Health Law (Japan) |
| ISO | International Organisation for Standardization |
| KECI | Korea Existing Chemicals Inventory |
| LC50 | Lethal Concentration to 50 % of a test population |
| LD50 | Lethal Dose to 50% of a test population (Median Lethal Dose) |
| MARPOL | International Convention for the Prevention of Pollution from Ships |
| n.o.s. | Not Otherwise Specified |
| NO(A)EC | No Observed (Adverse) Effect Concentration |
| NO(A)EL | No Observed (Adverse) Effect Level |
| NOELR | No Observable Effect Loading Rate |
| NZIoC | New Zealand Inventory of Chemicals |
| OECD | Organization for Economic Co-operation and Development |
| OPPTS | Office of Chemical Safety and Pollution Prevention |
| PBT | Persistent, Bioaccumulative and Toxic substance |
| PICCS | Philippines Inventory of Chemicals and Chemical Substances |
| (Q)SAR | (Quantitative) Structure Activity Relationship |

Safety Data Sheet

gemäß Verordnung (EU) Nr. 1907/2006

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| REACH | Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SADT | Self-Accelerating Decomposition Temperature |
| SDS | Safety Data Sheet |
| TCSI | Taiwan Chemical Substance Inventory |
| TRGS | Technical Rule for Hazardous Substances |
| TSCA | Toxic Substances Control Act (United States) |
| UN | United Nations |
| vPvB | Very Persistent and Very Bioaccumulative |

Decimal notation: "thousands" places are identified with a dot (for example, "2.000 mg/kg" means "two thousand mg/kg"). Decimal places are identified with a comma (for example, "1,35 g/cm³" means "one point three five g/cm³").

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