according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU

Mercurisorb-ROTH® contains silver nitrate

article number: **9461**Version: **3.0 en**date of compilation: 2016-05-27
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Version: (2)

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

1.1 Product identifier

Identification of the substance Mercurisorb-ROTH®

Article number 9461

Registration number (REACH) not relevant (mixture)

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: laboratory chemical

1.3 Details of the supplier of the safety data sheet

Carl Roth GmbH + Co KG Schoemperlenstr. 3-5 D-76185 Karlsruhe Germany

Telephone: +49 (0) 721 - 56 06 0 **Telefax:** +49 (0) 721 - 56 06 149 **e-mail:** sicherheit@carlroth.de **Website:** www.carlroth.de

Competent person responsible for the safety data : Department Health, Safety and Environment

sheet

e-mail (competent person) : sicherheit@carlroth.de

1.4 Emergency telephone number

| Name | Street | Postal code/city | Telephone | Website |
|--|-----------|-------------------|--------------|---------|
| National Poisons In- formation Service City Hospital | Dudley Rd | B187QH Birmingham | 844 892 0111 | |

Emergency information service +49/(0)89 19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

Classification acc. to GHS

| Section | Hazard class | Hazard class and cat- egory | Hazard state- ment |
|---------|---|--------------------------------|--------------------------|
| 3.2 | skin corrosion/irritation | (Skin Corr. 1B) | H314 |
| 3.3 | serious eye damage/eye irritation | (Eye Dam. 1) | H318 |
| 4.1A | hazardous to the aquatic environment - acute hazard | (Aquatic Acute 1) | H400 |
| 4.1C | hazardous to the aquatic environment - chronic hazard | (Aquatic Chronic 1) | H410 |

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2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

Signal word Danger

Pictograms

GHS05, GHS09



Hazard statements

H314 Causes severe skin burns and eye damage H410 Very toxic to aquatic life with long lasting effects

Precautionary statements

Precautionary statements - prevention

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statements - response

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin

with water [or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

Precautionary statements - disposal

P501 Dispose of contents/container in accordance with local/regional/national/inter-

national regulations.

Hazardous ingredients for labelling: Silver nitrate

Labelling of packages where the contents do not exceed 125 ml

Signal word: Danger

Symbol(s)



H314 Causes severe skin burns and eye damage.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing.

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

contains: Silver nitrate

2.3 Other hazards

There is no additional information.

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SECTION 3: Composition/information on ingredients

3.2 **Mixtures**

Description of the mixture

Composition/information on ingredients.

| Name of substance | Identifier | wt% | Classification acc. to 1272/2008/EC | Pictograms | Notes | M-Factors |
|-------------------|--|--------------|---|-------------|---------------------|--|
| Silica gel 60 | CAS No 7631-86-9 EC No 231-545-4 REACH Reg. No 01-2119379499- | 40 - 60 | | | IOELV | |
| Silver nitrate | 16-xxxx CAS No 7761-88-8 EC No 231-853-9 | 10 - < 25 | Ox. Sol. 2 / H272 Skin Corr. 1B / H314 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410 | | GHS- HC IOELV | M-factor (acute) = 100.0 M-factor (chronic) = 100.0 |
| | Index No 047-001-00-2 REACH Reg. No 01-2119513705- 43-xxxx | | | ₹ 2> | | |

Notes

Harmonised classification (the classification of the substance corresponds to the entry in the list according to GHS-HC:

1272/2008/EC, Annex VI)
Substance with a community indicative occupational exposure limit value IOELV:

Remarks

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 **Description of first aid measures**



General notes

Take off immediately all contaminated clothing. Self-protection of the first aider.

Following inhalation

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

Following skin contact

After contact with skin, wash immediately with plenty of water. Immediate medical treatment required because corrosive injuries that are not treated are hard to cure.

Following eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Protect uninjured eye.

Following ingestion

Rinse mouth immediately and drink plenty of water. Call a physician immediately. If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects).

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4.2 Most important symptoms and effects, both acute and delayed

Cough, Breathing difficulties, Corrosion, Risk of serious damage to eyes, Risk of blindness, Gastric perforation

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Firefighting measures

5.1 Extinguishing media



Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings water spray, foam, dry extinguishing powder, carbon dioxide (CO2)

Unsuitable extinguishing media

water jet

5.2 Special hazards arising from the substance or mixture

Non-combustible.

Hazardous combustion products

In case of fire may be liberated: nitrogen oxides (NOx)

5.3 Advice for firefighters

Do not allow firefighting water to enter drains or water courses. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus. Wear full chemical protective clothing.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures



For non-emergency personnel

Use personal protective equipment as required. Avoid contact with skin, eyes and clothes. Do not breathe dust.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up

Advices on how to contain a spill

Covering of drains.

Advices on how to clean up a spill

Take up mechanically. Control of dust.

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Other information relating to spills and releases

Place in appropriate containers for disposal.

Reference to other sections 6.4

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 **Precautions for safe handling**

Handle and open container with care. Clear contaminated areas thoroughly.

Measures to protect the environment

Avoid release to the environment.

Advice on general occupational hygiene

Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Store in a dry place. Keep container tightly closed. Protect from sunlight.

Incompatible substances or mixtures

Observe hints for combined storage. Keep/store away from combustible materials.

Consideration of other advice

Ventilation requirements

Use local and general ventilation.

Specific designs for storage rooms or vessels

Recommended storage temperature: 5 - 25 °C.

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 **Control parameters**

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

| Coun- try | Name of agent | CAS No | Nota- tion | Identifier | TWA [mg/m³] | STEL [mg/m³] | Source |
|--------------|-------------------|-------------|---------------|------------|----------------|-----------------|-----------|
| GB | silica, amorphous | 112926-00-8 | i | WEL | 6 | | EH40/2005 |
| GB | silica, amorphous | 112926-00-8 | r | WEL | 2,4 | | EH40/2005 |

Notation

Inhalable fraction Respirable fraction

Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified) STEL

TWA Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8

hours time-weighted average (unless otherwise specified)

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Relevant DNELs/DMELs/PNECs and other threshold levels

relevant DNELs of components of the mixture

| Name of sub- stance | CAS No | End- point | Threshold level | Protection goal, route of exposure | Used in | Exposure time |
|------------------------|---------------|---------------|-------------------------|--|------------------------|---------------------------------|
| Silica gel 60 | 7631-86- 9 | DNEL | 4 mg/m³ | human, inhalatory | worker (in- dustry) | chronic - systemic ef- fects |
| Silver nitrate | 7761-88- 8 | DNEL | 0,016 mg/m ³ | human, inhalatory | worker (in- dustry) | chronic - systemic ef- fects |

8.2 Exposure controls

Individual protection measures (personal protective equipment)

Eye/face protection





Use safety goggle with side protection. Wear face protection.

Skin protection





hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

· type of material

NBR (Nitrile rubber)

material thickness

>0,11 mm

• breakthrough times of the glove material

>480 minutes (permeation: level 6)

other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

Respiratory protection





Respiratory protection necessary at: Dust formation. Particulate filter device (EN 143). P1 (filters at least 80 % of airborne particles, colour code: White).

Environmental exposure controls

Keep away from drains, surface and ground water.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state solid (powder, granular)

Colour white - light grey

Odour odourless

Odour threshold No data available

Other physical and chemical parameters

pH (value) This information is not available.

Melting point/freezing point not determined

Initial boiling point and boiling range This information is not available.

Flash point not applicable

Evaporation rate no data available

Flammability (solid, gas)

These information are not available

Explosive limits

• lower explosion limit (LEL) this information is not available

• upper explosion limit (UEL) this information is not available

Explosion limits of dust clouds these information are not available

Vapour pressure This information is not available.

Density This information is not available.

Vapour density This information is not available.

Relative density Information on this property is not available.

Solubility(ies)

Water solubility no data available

Partition coefficient

n-octanol/water (log KOW) This information is not available.

Auto-ignition temperature Information on this property is not available.

Decomposition temperature no data available

Viscosity not relevant (solid matter)

Explosive properties Shall not be classified as explosive

Oxidising properties ingredients of the mixture: oxidising

9.2 Other information

There is no additional information.

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SECTION 10: Stability and reactivity

10.1 Reactivity

Ingredients of the mixture: Oxidising property.

10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions

Violent reaction with: Aldehydes, Alkali hydroxide (caustic alkali), Carbide, Halogenated hydrocarbons, Sodium, Strong oxidiser

10.4 Conditions to avoid

Direct light irradiation.

10.5 Incompatible materials

There is no additional information.

10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Shall not be classified as acutely toxic.

Skin corrosion/irritation

Causes severe burns.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Summary of evaluation of the CMR properties

Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant

• Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

• Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

Symptoms related to the physical, chemical and toxicological characteristics

If swallowed

nausea, vomiting, If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects)

If in eyes

causes burns, Causes serious eye damage, risk of blindness

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If inhaled

irritability, cough, breathing difficulties

• If on skin

causes severe burns, causes poorly healing wounds

Other information

None

SECTION 12: Ecological information

12.1 Toxicity

Very toxic to aquatic life with long lasting effects.

Aquatic toxicity (acute)

Very toxic to aquatic organisms.

Aquatic toxicity (acute) of components of the mixture

| Name of substance | CAS No | Endpoint | Value | Species | Exposure time |
|-------------------|-----------|----------|---|--------------------------|------------------|
| Silica gel 60 | 7631-86-9 | EL50 | >10.000 ^{mg} / _l | algae | 72 h |
| Silver nitrate | 7761-88-8 | LC50 | 0,0067 ^{mg} / _l | Pimephales pro- melas | 96 h |
| Silver nitrate | 7761-88-8 | LC50 | 0,0069 – 0,0082 ^{mg} / _l | daphnia magna | 48 h |

Aquatic toxicity (chronic)

May cause long-term adverse effects in the aquatic environment.

Aquatic toxicity (chronic) of components of the mixture

| Name of substance | CAS No | Endpoint | Value | Species | Exposure time |
|-------------------|-----------|----------|--------------------------------------|----------------------------|------------------|
| Silica gel 60 | 7631-86-9 | EL50 | >1.000 ^{mg} / _l | aquatic inverteb- rates | 24 h |
| Silver nitrate | 7761-88-8 | NOEC | 0,00037 ^{mg} / _l | Pimephales pro- melas | 28 d |
| Silver nitrate | 7761-88-8 | NOEC | 0,011 ^{mg} / _l | orfe (Leuciscus idus) | 96 h |

12.2 Process of degradability

The methods for determining the biological degradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Other adverse effects

Data are not available.

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SECTION 13: Disposal considerations

13.1 Waste treatment methods



This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used.

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used.

13.2 Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

13.3 Remarks

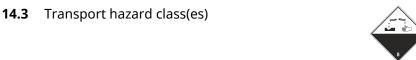
Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions.

SECTION 14: Transport information

| 14.1 | UN number | 3260 |
|------|-----------|------|
| | | |

14.2 UN proper shipping name CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.

Hazardous ingredients Silver nitrate



Class 8 (corrosive substances)

14.4 Packing group II (substance presenting medium danger)

14.5 Environmental hazards hazardous to the aquatic environment (Silver nitrate)

14.6 Special precautions for user

Provisions for dangerous goods (ADR) should be complied within the premises.

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

The cargo is not intended to be carried in bulk.

14.8 Information for each of the UN Model Regulations

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• Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

UN number 3260

Proper shipping name CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.

Particulars in the transport document UN3260, CORROSIVE SOLID, ACIDIC, INORGANIC,

N.O.S., (contains: Silver nitrate), 8, II, (E), environ-

mentally hazardous

Class 8
Classification code C2
Packing group II

Danger label(s) 8 + "fish and tree"





Emergency Action Code

Environmental hazards yes (hazardous to the aquatic environment)

Special provisions (SP) 274

Excepted quantities (EQ) E2

Limited quantities (LQ) 1 kg

Transport category (TC) 2

Tunnel restriction code (TRC) E

Hazard identification No 80

• International Maritime Dangerous Goods Code (IMDG)

UN number 3260

Proper shipping name CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.

Particulars in the shipper's declaration UN3260, CORROSIVE SOLID, ACIDIC, INORGANIC,

N.O.S., (contains: Silver nitrate), 8, II, MARINE

POLLÚŤANT

Class

Marine pollutant yes (P) (hazardous to the aquatic environment)

Packing group II

Danger label(s) 8 + "fish and tree"





Special provisions (SP) 274

Excepted quantities (EQ) E2

Limited quantities (LQ) 1 kg

EmS F-A, S-B

Stowage category B

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Segregation group 1 - Acids

• International Civil Aviation Organization (ICAO-IATA/DGR)

UN number 3260

Proper shipping name Corrosive solid, acidic, inorganic, n.o.s.

Particulars in the shipper's declaration UN3260, Corrosive solid, acidic, inorganic, n.o.s.,

(contains: Silver nitrate), 8, II

Class

Environmental hazards yes (hazardous to the aquatic environment)

Packing group II 8 Danger label(s)



Special provisions (SP) **A3** Excepted quantities (EQ) E2 Limited quantities (LQ) 5 kg

SECTION 15: Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant provisions of the European Union (EU)
 - Regulation 649/2012/EU concerning the export and import of hazardous chemicals (PIC) None of the ingredients are listed.
 - Regulation 1005/2009/EC on substances that deplete the ozone layer (ODS) None of the ingredients are listed.
 - Regulation 850/2004/EC on persistent organic pollutants (POP)

None of the ingredients are listed.

Restrictions according to REACH, Annex XVII

| Name of substance | CAS No | Wt% | Type of registration | Conditions of restric- tion | No |
|-------------------|--------|------|----------------------------|-----------------------------------|----|
| Silver nitrate | | 21,9 | 1907/2006/EC annex XVII | R3 | 3 |

Legend

R3

- 1. Shall not be used in:
- ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,

tricks and jokes,

- games for one or more participants, or any article intended to be used as such, even with ornamental aspects,

2. Articles not complying with paragraph 1 shall not be placed on the market.
3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:
- can be used as fuel in decorative oil lamps for supply to the general public, and,
- present an aspiration hazard and are labelled with R65 or H304,
4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN)

tion (CEN).

5. Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:

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Legend

(a) lamp oils, labelled with R65 or H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: 'Keep lamps filled with this liquid out of the reach of children'; and, by 1 December 2010, 'Just a sip of lamp oil - or even sucking the wick of lamps - may lead to life-threatening lung damage'; (b) grill lighter fluids, labelled with R65 or H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: 'Just a sip of grill lighter may lead to life threatening lung damage'; (c) lamp oils and grill lighters, labelled with R65 or H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.

6. No later than 1 June 2014, the Commission shall request the European Chemicals Agency to prepare a dossier, in accordance with Article 69 of the present Regulation with a view to ban, if appropriate, grill lighter fluids and fuel for decorative lamps, labelled R65 or H304, intended for supply to the general public.

7. Natural or legal persons placing on the market for the first time lamp oils and grill lighter fluids, labelled with R65 or H304, shall by 1 December 2011, and annually thereafter, provide data on alternatives to lamp oils and grill lighter fluids labelled R65 or H304 to the competent authority in the Member State concerned. Member States shall make those data available to the Commission.

Restrictions according to REACH, Title VIII

None.

• List of substances subject to authorisation (REACH, Annex XIV)/SVHC - candidate list none of the ingredients are listed

Seveso Directive

| 2012/18/EU (Seveso III) | | | | | | |
|-------------------------|----|--|---|-------|--|--|
| | No | Dangerous substance/hazard categories | Qualifying quantity (tonnes) for the application of lower and upper-tier requirements | Notes | | |
| | E1 | environmental hazards (hazardous to the aquatic environment, cat. 1) | 100 200 | 56) | | |

Notation

56) Hazardous to the Aquatic Environment in category Acute 1 or Chronic 1

• Directive 75/324/EEC relating to aerosol dispensers

Filling batch

Deco-Paint Directive (2004/42/EC)

| VOC content | 0 % | | | | |
|--|-----|--|--|--|--|
| Directive on industrial emissions (VOCs, 2010/75/EU) | | | | | |
| VOC content | 0 % | | | | |

Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) - Annex II

None of the ingredients are listed.

Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

None of the ingredients are listed.

Directive 2000/60/EC establishing a framework for Community action in the field of water policy (WFD)

None of the ingredients are listed.

Regulation 98/2013/EU on the marketing and use of explosives precursors

none of the ingredients are listed

Regulation 111/2005/EC laying down rules for the monitoring of trade between the Community and third countries in drug precursors

none of the ingredients are listed

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National inventories

| Country | National inventories | Status |
|---------|----------------------|--------------------------------|
| AU | AICS | all ingredients are listed |
| CA | DSL | all ingredients are listed |
| CN | IECSC | all ingredients are listed |
| EU | ECSI | all ingredients are listed |
| EU | REACH Reg. | all ingredients are listed |
| JP | CSCL-ENCS | all ingredients are listed |
| KR | KECI | all ingredients are listed |
| MX | INSQ | all ingredients are listed |
| NZ | NZIoC | all ingredients are listed |
| PH | PICCS | all ingredients are listed |
| TR | CICR | not all ingredients are listed |
| TW | TCSI | all ingredients are listed |
| US | TSCA | all ingredients are listed |

Legend

Australian Inventory of Chemical Substances Chemical Inventory and Control Regulation List of Existing and New Chemical Substances (CSCL-ENCS) AICS CICR

CSCL-ENCS DSL ECSI IECSC

Domestic Substances List (DSL)
EC Substance Inventory (EINECS, ELINCS, NLP)
Inventory of Existing Chemical Substances Produced or Imported in China National Inventory of Chemical Substances

Korea Existing Chemicals Inventory
New Zealand Inventory of Chemicals
Philippine Inventory of Chemicals and Chemical Substances

REACH Reg. REACH registered substances
TCSI Taiwan Chemical Substance Inventory
TSCA Toxic Substance Control Act

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Indication of changes (revised safety data sheet) 16.1

| Section | Former entry (text/value) | Actual entry (text/value) |
|---------|---|---|
| 1.4 | | Emergency telephone number: change in the listing (table) |
| 1.4 | Emergency information service: Poison Centre Munich: +49/(0)89 19240 | Emergency information service: +49/(0)89 19240 |
| 2.1 | Remarks: For full text of Hazard- and EU Hazard-statements: see SECTION 16. | |
| 2.2 | | Pictograms: change in the listing (table) |
| 2.2 | | Precautionary statements - response: change in the listing (table) |

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| Section | Former entry (text/value) | Actual entry (text/value) |
|---------|--|--|
| 2.2 | | Labelling of packages where the contents do not exceed 125 ml: change in the listing (table) |
| 3.2 | | Description of the mixture: change in the listing (table) |
| 4.2 | Most important symptoms and effects, both acute and delayed: Corrosion, Cough, Risk of blindness, Gastric perfora- tion, Risk of serious damage to eyes, Dyspnoea | Most important symptoms and effects, both acute and delayed: Cough, Breathing difficulties, Corrosion, Risk of seri- ous damage to eyes, Risk of blindness, Gastric per- foration |
| 5.1 | Extinguishing media | Extinguishing media: fire extinguisher |
| 5.2 | Hazardous combustion products: In case of fire may be liberated: May produce toxic fumes of carbon monoxide if burning. | Hazardous combustion products: In case of fire may be liberated: nitrogen oxides (NOx) |
| 6.1 | Personal precautions, protective equipment and emergency procedures | Personal precautions, protective equipment and emergency procedures: general warning |
| 6.1 | For non-emergency personnel: Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. Do not breathe dust. Avoid contact with skin, eyes and clothes. | For non-emergency personnel: Use personal protective equipment as required. Avoid contact with skin, eyes and clothes. Do not breathe dust. |
| 7.1 | Precautions for safe handling: Handle and open container with care. | Precautions for safe handling: Handle and open container with care. Clear contaminated areas thoroughly. |
| 7.1 | | Measures to protect the environment: Avoid release to the environment. |
| 8.1 | | Occupational exposure limit values (Workplace Exposure Limits): change in the listing (table) |
| 8.2 | Individual protection measures (personal protective equipment): eye protection must be worn safety gloves must be worn respiratory equipment must be used | Individual protection measures (personal protective equipment) |
| 8.2 | Eye/face protection: Use safety goggle with side protection. Wear face protection. | Eye/face protection: eye protection must be wornwear face shieldUse safety goggle with side protection. Wear face protec- tion. |
| 8.2 | Skin protection | Skin protection: safety gloves must be wornuse barrier cream |
| 8.2 | • material thickness: 0,4 mm. | • material thickness: >0,11 mm |
| 8.2 | Respiratory protection: Respiratory protection necessary at: Dust formation. Particulate filter device (EN 143). P1 (filters at least 80 % of airborne particles, colour code: White). | Respiratory protection: wear easy dutyrespiratory equipment must be usedRespiratory protection necessary at: Dust form- ation. Particulate filter device (EN 143). P1 (filters at least 80 % of airborne particles, colour code: White). |
| 9.1 | Physical state: solid (powder, crystalline) | Physical state: solid (powder, granular) |
| 9.1 | Colour: light grey | Colour: white - light grey |
| 9.1 | Flammability (solid, gas): Non-flammable | Flammability (solid, gas): These information are not available |
| 10.1 | Reactivity: This material is not reactive under normal ambient conditions. | Reactivity: Ingredients of the mixture: Oxidising property. |

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| Section | Former entry (text/value) | Actual entry (text/value) |
|---------|--|--|
| 11.1 | • If swallowed: vomiting, nausea, If swallowed danger of perfora- tion of the esophagus and the stomach (strong cor- rosive effects) | • If swallowed: nausea, vomiting, If swallowed danger of perfora- tion of the esophagus and the stomach (strong cor- rosive effects) |
| 11.1 | • If inhaled: irritability, cough, Dyspnoea | • If inhaled: irritability, cough, breathing difficulties |
| 13.1 | Waste treatment methods: This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations. | Waste treatment methods: spent solventsThis material and its container must be disposed of as hazardous waste. Dispose of con- tents/container in accordance with local/regional/na- tional/international regulations. |
| 13.1 | | Sewage disposal-relevant information: Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets. |
| 13.1 | | Waste treatment of containers/packagings: It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. |
| 14.3 | Transport hazard class(es) | Transport hazard class(es): class 8 hazard - corrosive substances |
| 14.8 | Marine pollutant: yes (hazardous to the aquatic environment) | Marine pollutant: yes (P) (hazardous to the aquatic environment) |
| 14.8 | Packing group: II8 | Packing group: II |
| 14.8 | | Danger label(s): 8 |
| 14.8 | | Danger label(s): change in the listing (table) |
| 14.8 | Special provisions (SP): A3, 274 | Special provisions (SP): A3 |
| 15.1 | • Restrictions according to REACH, Annex XVII: None of the ingredients are listed. | Restrictions according to REACH, Annex XVII |
| 15.1 | List of substances subject to authorisation (REACH, Annex XIV): None of the ingredients are listed. | |
| 15.1 | | Restrictions according to REACH, Annex XVII: change in the listing (table) |
| 15.1 | | Restrictions according to REACH, Title VIII: None. |
| 15.1 | | • List of substances subject to authorisation (REACH, Annex XIV)/SVHC - candidate list: none of the ingredients are listed |
| 15.1 | Limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products (2004/42/EC, Deco-Paint Directive) | |
| 15.1 | VOC content: 0 % | |
| 15.1 | • Directive on industrial emissions (VOCs, 2010/75/EU) | |
| 15.1 | VOC content: 0 % | |
| 15.1 | | Directive 75/324/EEC relating to aerosol dispensers |
| 15.1 | | Filling batch |

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| Section | Former entry (text/value) | Actual entry (text/value) |
|---------|---|---|
| 15.1 | | Deco-Paint Directive (2004/42/EC) |
| 15.1 | | VOC content: 0 % |
| 15.1 | | Directive on industrial emissions (VOCs, 2010/75/EU) |
| 15.1 | | VOC content: 0 % |
| 15.1 | | Regulation 98/2013/EU on the marketing and use of explosives precursors: none of the ingredients are listed |
| 15.1 | | Regulation 111/2005/EC laying down rules for the monitoring of trade between the Community and third countries in drug precursors: none of the ingredients are listed |
| 15.1 | | National inventories |
| 15.1 | | National inventories: change in the listing (table) |
| 16 | | Abbreviations and acronyms: change in the listing (table) |
| 16 | Key literature references and sources for data: - Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU - Regulation (EC) No. 1272/2008 (CLP, EU GHS) | Key literature references and sources for data: - Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU - Regulation (EC) No. 1272/2008 (CLP, EU GHS) - Dangerous Goods Regulations (DGR) for the air transport (IATA) - International Maritime Dangerous Goods Code (IMDG) |

Abbreviations and acronyms

| Abbr. | Descriptions of used abbreviations |
|--------------------|---|
| ADN | Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways) |
| ADR | Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road) |
| Aquatic Acute | hazardous to the aquatic environment - acute hazard |
| Aquatic Chronic | hazardous to the aquatic environment - chronic hazard |
| CAS | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances) |
| CLP | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures |
| CMR | Carcinogenic, Mutagenic or toxic for Reproduction |
| DGR | Dangerous Goods Regulations (see IATA/DGR) |
| DMEL | Derived Minimal Effect Level |
| DNEL | Derived No-Effect Level |
| EC No | The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union) |
| EH40/2005 | EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-licence/) |
| EINECS | European Inventory of Existing Commercial Chemical Substances |
| ELINCS | European List of Notified Chemical Substances |
| EmS | Emergency Schedule |

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| IATA International Air Transport Association IATA/DGR Dangerous Goods Regulations (DGR) for the air transport (IATA) ICAO International Civil Aviation Organization IMDG International Maritime Dangerous Goods Code index No the Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008 MARPOL International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant") M-factor means a multiplying factor. It is applied to the concentration of a substance classified as hazardous to the aquatic environment acute category 1 or chronic category 1, and is used to derive by the summation method the classification of a mixture in which the substance is present NLP No-Longer Polymer Ox. Sol. oxidising solid PBT Persistent, Bioaccumulative and Toxic PNEC Predicted No-Effect Concentration REACH Registration, Evaluation, Authorisation and Restriction of Chemicals RID Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail) Skin Corr. corrosive to skin Skin Irrit. irritant to skin STEL short-term exposure limit SVHC Substance of Very High Concern TWA time-weighted average VOC Volatile Organic Compounds VPVB very Persistent and very Bioaccumulative | | | |
|--|-------------|---|--|
| IATA International Air Transport Association IATA/DGR Dangerous Goods Regulations (DGR) for the air transport (IATA) ICAO International Civil Aviation Organization IMDG International Maritime Dangerous Goods Code index No the Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008 MARPOL International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant") M-factor means a multiplying factor. It is applied to the concentration of a substance classified as hazardous to the aquatic environment acute category 1 or chronic category 1, and is used to derive by the summation method the classification of a mixture in which the substance is present NLP No-Longer Polymer Ox. Sol. oxidising solid PBT Persistent, Bioaccumulative and Toxic PNEC Predicted No-Effect Concentration REACH Registration, Evaluation, Authorisation and Restriction of Chemicals RID Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail) Skin Corr. corrosive to skin Skin Irrit. irritant to skin StEL short-term exposure limit SVHC Substance of Very High Concern TWA time-weighted average VOC Volatile Organic Compounds vevy Persistent and very Bioaccumulative | Abbr. | Descriptions of used abbreviations | |
| IATA/DGR Dangerous Goods Regulations (DGR) for the air transport (IATA) ICAO International Civil Aviation Organization IMDG International Maritime Dangerous Goods Code index No the Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008 MARPOL International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant") M-factor means a multiplying factor. It is applied to the concentration of a substance classified as hazardous to the aquatic environment acute category 1 or chronic category 1, and is used to derive by the summation method the classification of a mixture in which the substance is present NLP No-Longer Polymer Ox. Sol. oxidising solid PBT Persistent, Bioaccumulative and Toxic PNEC Predicted No-Effect Concentration REACH Registration, Evaluation, Authorisation and Restriction of Chemicals RID Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail) Skin Corr. corrosive to skin Skin Irrit. irritant to skin STEL short-term exposure limit SVHC Substance of Very High Concern TWA time-weighted average VOC Volatile Organic Compounds vevB very Persistent and very Bioaccumulative | GHS | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations | |
| International Civil Aviation Organization IMDG International Maritime Dangerous Goods Code index No the Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008 MARPOL International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant") M-factor means a multiplying factor. It is applied to the concentration of a substance classified as hazardous to the aquatic environment acute category 1 or chronic category 1, and is used to derive by the summation method the classification of a mixture in which the substance is present NLP No-Longer Polymer Ox. Sol. oxidising solid PBT Persistent, Bioaccumulative and Toxic PNEC Predicted No-Effect Concentration REACH Registration, Evaluation, Authorisation and Restriction of Chemicals RID Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail) Skin Corr. corrosive to skin Skin Irrit. irritant to skin STEL short-term exposure limit SVHC Substance of Very High Concern TWA time-weighted average VOC Volatile Organic Compounds vPvB very Persistent and very Bioaccumulative | IATA | International Air Transport Association | |
| IMDG International Maritime Dangerous Goods Code index No the Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008 MARPOL International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant") M-factor means a multiplying factor. It is applied to the concentration of a substance classified as hazardous to the aquatic environment acute category 1 or chronic category 1, and is used to derive by the summation method the classification of a mixture in which the substance is present NLP No-Longer Polymer Ox. Sol. oxidising solid PBT Persistent, Bioaccumulative and Toxic PNEC Predicted No-Effect Concentration REACH Registration, Evaluation, Authorisation and Restriction of Chemicals RID Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail) Skin Corr. corrosive to skin Skin Irrit. irritant to skin STEL short-term exposure limit SVHC Substance of Very High Concern TWA time-weighted average VOC Volatile Organic Compounds vPvB very Persistent and very Bioaccumulative | IATA/DGR | Dangerous Goods Regulations (DGR) for the air transport (IATA) | |
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| PNEC Predicted No-Effect Concentration REACH Registration, Evaluation, Authorisation and Restriction of Chemicals RID Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail) Skin Corr. corrosive to skin Skin Irrit. irritant to skin STEL short-term exposure limit SVHC Substance of Very High Concern TWA time-weighted average VOC Volatile Organic Compounds vPvB very Persistent and very Bioaccumulative | Ox. Sol. | oxidising solid | |
| REACH Registration, Evaluation, Authorisation and Restriction of Chemicals RID Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail) Skin Corr. corrosive to skin Skin Irrit. irritant to skin STEL short-term exposure limit SVHC Substance of Very High Concern TWA time-weighted average VOC Volatile Organic Compounds vPvB very Persistent and very Bioaccumulative | PBT | Persistent, Bioaccumulative and Toxic | |
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| TWA time-weighted average VOC Volatile Organic Compounds vPvB very Persistent and very Bioaccumulative | STEL | short-term exposure limit | |
| VOC Volatile Organic Compounds vPvB very Persistent and very Bioaccumulative | SVHC | Substance of Very High Concern | |
| vPvB very Persistent and very Bioaccumulative | TWA | time-weighted average | |
| | VOC | Volatile Organic Compounds | |
| in an in the second sec | vPvB | very Persistent and very Bioaccumulative | |
| WEL workplace exposure limit | WEL | workplace exposure limit | |

Key literature references and sources for data

- Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU Regulation (EC) No. 1272/2008 (CLP, EU GHS) Dangerous Goods Regulations (DGR) for the air transport (IATA) International Maritime Dangerous Goods Code (IMDG)

List of relevant phrases (code and full text as stated in chapter 2 and 3)

| Code | Text |
|------|--|
| H272 | may intensify fire; oxidiser |
| H314 | causes severe skin burns and eye damage |
| H318 | causes serious eye damage |
| H400 | very toxic to aquatic life |
| H410 | very toxic to aquatic life with long lasting effects |

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Disclaimer

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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