

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Xylol chem. rein

Revision: 19.03.2025

Product code: 21276

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Xylol chem. rein

Further trade names

Reaktionsmasse von Ethylbenzol und Xylol

EU REACH-Reg. Nr.: 01-2119488216-32-xxxx, 01-2119486136-34-xxxx

Substance name: xylene (mix)
REACH Registration Number: 01-2119488216-32-XXXX
Index No: 601-022-00-9
EC No: 905-588-0

1.2. Relevant identified uses of the substance or mixture and uses advised against**Use of the substance/mixture**

Reagents and laboratory chemicals
Only for laboratory and analysis purposes.

Uses advised against

Do not use for private purposes (household).

1.3. Details of the supplier of the safety data sheet

Company name: AnalytiChem GmbH
ACD
Street: Stempelstraße 6
Place: D-47167 Duisburg
Telephone: 0203/5194-0
E-mail: info@analytichem.de
Contact person: Abteilung Produktsicherheit
E-mail: produktsicherheit@analytichem.de
Internet: www.analytichem.de
Responsible Department: Abteilung Produktsicherheit

Telefax: 0203/5194-290
Telephone: 0203/5194-107/117

1.4. Emergency telephone number:

For Hazardous Materials [or Dangerous Goods] Incidents Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-741-5970 (collect calls accepted)

Further Information

No data available

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Regulation (EC) No 1272/2008**

Flam. Liq. 3; H226
Acute Tox. 4; H332
Acute Tox. 4; H312
Skin Irrit. 2; H315
Eye Irrit. 2; H319
STOT SE 3; H335
STOT RE 2; H373
Asp. Tox. 1; H304
Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

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2.2. Label elements**Regulation (EC) No 1272/2008****Signal word:** Danger**Pictograms:****Hazard statements**

| | |
|-----------|---|
| H226 | Flammable liquid and vapour. |
| H304 | May be fatal if swallowed and enters airways. |
| H312+H332 | Harmful in contact with skin or if inhaled. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |
| H373 | May cause damage to organs (auditory organs, liver, kidneys, central nervous system) through prolonged or repeated exposure if inhaled. |
| H412 | Harmful to aquatic life with long lasting effects. |

Precautionary statements

| | |
|-----------|--|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P260 | Do not breathe mist/vapours/spray. |
| P301+P310 | IF SWALLOWED: Immediately call a POISON CENTER/doctor. |
| P331 | Do NOT induce vomiting. |
| P403+P235 | Store in a well-ventilated place. Keep cool. |

2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients**3.1. Substances****Relevant ingredients**

| CAS No | Chemical name | | | Quantity |
|--------|---|--------------|-----------------------|----------|
| | EC No | Index No | REACH No | |
| | Classification (Regulation (EC) No 1272/2008) | | | |
| | xylene (mix) | | | 100 % |
| | 905-588-0 | 601-022-00-9 | 01-2119488216-32-XXXX | |
| | Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, STOT RE 2, Asp. Tox. 1, Aquatic Chronic 3; H226 H332 H312 H315 H319 H335 H373 H304 H412 | | | |

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

| CAS No | EC No | Chemical name | Quantity |
|--------|-----------|--|----------|
| | | Specific Conc. Limits, M-factors and ATE | |
| | 905-588-0 | xylene (mix) | 100 % |
| | | inhalation: LC50 = 6700 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = 12126 mg/kg; oral: LD50 = 3523 mg/kg | |

Further Information

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

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SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

No data available

After inhalation

Provide fresh air.

If breathing is irregular or stopped, administer artificial respiration.

Call a physician immediately.

After contact with skin

Wash immediately with: Water

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

Call a physician immediately.

After contact with eyes

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.

After ingestion

Observe risk of aspiration if vomiting occurs.

Call a physician immediately.

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

Irritant

Dizziness

Vapours may cause drowsiness and dizziness.

Headache

Agitation

Spasms

Anaesthetic state

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

No data available

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Foam

Carbon dioxide (CO₂)

Extinguishing powder

Unsuitable extinguishing media

no restriction

5.2. Special hazards arising from the substance or mixture

Combustible liquids

Hazardous combustion products

In case of fire may be liberated:

Carbon dioxide (CO₂) Carbon monoxide

Vapours are heavier than air, spread along floors and form explosive mixtures with air.

Heating causes rise in pressure with risk of bursting.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

In case of fire and/or explosion do not breathe fumes.

Avoid contact with skin, eyes and clothes.

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Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.
Move undamaged containers from immediate hazard area if it can be done safely.
Use water spray jet to protect personnel and to cool endangered containers.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Keep away from sources of ignition - No smoking.
This material can be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators, and pagers which have not been certified as intrinsically safe).
Take action to prevent static discharges.

For non-emergency personnel

Provide adequate ventilation.
Use personal protection equipment.
Avoid contact with skin, eyes and clothes.
Remove persons to safety.
Emergency procedures
Consult an expert
Do not breathe dust/fume/gas/mist/vapours/spray.

For emergency responders

Precautionary statements For emergency responders : Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains.
The vapour of the product is heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration.
Danger of explosion

6.3. Methods and material for containment and cleaning up**For containment**

Cover drains.
Prevent spread over a wide area (e.g. by containment or oil barriers).
Collect in closed and suitable containers for disposal.
Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

Other information

Provide adequate ventilation.
Do not breathe dust/fume/gas/mist/vapours/spray.
Wear breathing apparatus if exposed to vapours/dusts/aerosols.

6.4. Reference to other sections

Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Read label before use. Handle and open container with care.

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When using do not eat, drink, smoke, sniff. Keep container tightly closed.

Use personal protection equipment. Use extractor hood (laboratory).

Do not breathe gas/fumes/vapour/spray. Provide adequate ventilation.

Advice on protection against fire and explosion

Take action to prevent static discharges. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Advice on general occupational hygiene

Keep away from food, drink and animal feedingstuffs.

The choice of body protection depends on the concentration and quantity of hazardous substances. The chemical resistance of protective agents must be clarified with their suppliers.

Further information on handling

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

Draw up and observe skin protection programme.

Wash hands and face before breaks and after work and take a shower if necessary.

If handled uncovered, arrangements with local exhaust ventilation have to be used.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep in a cool, well-ventilated place.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hints on joint storage

national regulations

Further information on storage conditions

Keep container tightly closed.

Keep cool. Protect from sunlight.

storage temperature +5°C - +30°C

7.3. Specific end use(s)

Laboratory chemicals

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Occupational exposure limits**

| CAS No | Substance | ppm | mg/m ³ | fib/cm ³ | Category | Origin |
|-----------|-----------------------|-----|-------------------|---------------------|---------------|--------|
| 1330-20-7 | Xylene, mixed isomers | 50 | 221 | | TWA (8 h) | |
| | | 100 | 442 | | STEL (15 min) | |

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DNEL/DMEL values

| CAS No | Substance | | | |
|--------------------------|--------------|----------------|----------|-------------------|
| DNEL type | | Exposure route | Effect | Value |
| | xylene (mix) | | | |
| Worker DNEL, long-term | | inhalation | systemic | 221 mg/m³ |
| Worker DNEL, acute | | inhalation | systemic | 442 mg/m³ |
| Worker DNEL, long-term | | inhalation | local | 221 mg/m³ |
| Worker DNEL, acute | | inhalation | local | 442 mg/m³ |
| Worker DNEL, long-term | | dermal | systemic | 212 mg/kg bw/day |
| Consumer DNEL, long-term | | inhalation | systemic | 65,3 mg/m³ |
| Consumer DNEL, acute | | inhalation | systemic | 260 mg/m³ |
| Consumer DNEL, long-term | | inhalation | local | 65,3 mg/m³ |
| Consumer DNEL, acute | | inhalation | local | 260 mg/m³ |
| Consumer DNEL, long-term | | dermal | systemic | 125 mg/kg bw/day |
| Consumer DNEL, long-term | | oral | systemic | 12,5 mg/kg bw/day |

PNEC values

| CAS No | Substance | |
|--|--------------|--|
| Environmental compartment | Value | |
| | xylene (mix) | |
| Freshwater | 0,327 mg/l | |
| Freshwater (intermittent releases) | 0,327 mg/l | |
| Marine water | 0,327 mg/l | |
| Freshwater sediment | 12,46 mg/kg | |
| Marine sediment | 12,46 mg/kg | |
| Micro-organisms in sewage treatment plants (STP) | 6,58 mg/l | |
| Soil | 2,31 mg/kg | |

8.2. Exposure controls**Appropriate engineering controls**

Technical measures and the application of suitable work processes have priority over personal protection equipment.

If handled uncovered, arrangements with local exhaust ventilation have to be used.

Individual protection measures, such as personal protective equipment**Eye/face protection**

goggles

Face protection umbrella

Hand protection

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: vertrieb@kcl.de With specification (test according to EN374):

By long-term hand contact

KCL 890 Vitoject®

FKM (fluoro rubber) 0,7 mm

Wearing time with permanent contact: > 480 min

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By short-term hand contact
KCL 730 Camatril® Velours
NBR (Nitrile rubber) 0,4 mm
Wearing time with occasional contact (splashes): > 30 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet <(>, <)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Skin protection

Take off immediately all contaminated clothing and wash it before reuse.
Wear fire resistant or flame retardant clothing.
Wash hands and face before breaks and after work and take a shower if necessary.
Draw up and observe skin protection programme.

Respiratory protection

Wear breathing apparatus if exposed to vapours/dusts/aerosols.
Filtering device with filter or ventilator filtering device of type: A
The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Environmental exposure controls

Do not allow to enter into surface water or drains.
Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches.
Danger of explosion

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

| | |
|---|-------------------|
| Physical state: | Liquid |
| Colour: | colourless |
| Odour: | characteristic |
| Melting point/freezing point: | -47 °C |
| Boiling point or initial boiling point and boiling range: | 137-143 °C |
| Flammability: | No data available |
| Lower explosion limits: | 1,1 vol. % |
| Upper explosion limits: | 6,6 vol. % |
| Flash point: | 26 °C |
| Auto-ignition temperature: | No data available |
| Decomposition temperature: | No data available |
| pH-Value: | No data available |
| Viscosity / kinematic: | No data available |
| Water solubility: | No data available |
| Solubility in other solvents | No data available |
| Partition coefficient n-octanol/water: | No data available |
| Vapour pressure: | No data available |
| Density: | No data available |
| Bulk density: | No data available |
| Relative vapour density: | No data available |

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9.2. Other information**Information with regard to physical hazard classes**

Explosive properties

Vapours are heavier than air, spread along floors and form explosive mixtures with air.

Sustained combustibility:

Sustained combustibility

Self-ignition temperature

Solid:

No data available

Gas:

No data available

Oxidizing properties

No data available

Other safety characteristics

Evaporation rate:

No data available

Solvent separation test:

No data available

Solid content:

No data available

Sublimation point:

No data available

Softening point:

No data available

Pour point:

No data available

Viscosity / dynamic:

No data available

Flow time:

No data available

Further Information

No data available

SECTION 10: Stability and reactivity**10.1. Reactivity**

In case of warming:

Vapours may form explosive mixtures with air.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Oxidising agent

Sulphuric acid, concentrated

SULPHUR

Nitric acid

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5. Incompatible materials

Light metal

Rubber articles

plastic

10.6. Hazardous decomposition products

SECTION 5: Firefighting measures

Further information

No data available

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

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Acute toxicity

Harmful if inhaled.
Harmful in contact with skin.
Pulmonary oedema
Pneumonia
Resorption (by inhalation)
Resorption (dermal)

| CAS No | Chemical name | | | | |
|--------|-------------------------|------------------|---------|---|--|
| | Exposure route | Dose | Species | Source | Method |
| | xylene (mix) | | | | |
| | oral | LD50 3523 mg/kg | Rat | Study report (1986) | EU Method B.1 |
| | dermal | LD50 12126 mg/kg | Rabbit | Publication (1962) | Single dermal dose under occlusion follo |
| | inhalation (4 h) vapour | LC50 6700 mg/l | Rat | Toxicol Appl Pharmacol 33:543-558. (1975) | EU Method B.2 |
| | inhalation dust/mist | ATE 1,5 mg/l | | | |

Irritation and corrosivity

Skin corrosion/irritation: Causes skin irritation.
Serious eye damage/eye irritation: Causes serious eye irritation.
Has degreasing effect on the skin.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met.
Carcinogenicity: Based on available data, the classification criteria are not met.
Reproductive toxicity: Based on available data, the classification criteria are not met.

STOT-single exposure

May cause respiratory irritation. (xylene (mix))
Damage to:
kidneys
liver
central nervous system

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure. (xylene (mix))

Aspiration hazard

May be fatal if swallowed and enters airways.

11.2. Information on other hazards**Further information**

Gastrointestinal complaints
Irritant
Dizziness
Vapours may cause drowsiness and dizziness.
Headache
Agitation
Spasms
Anaesthetic state

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SECTION 12: Ecological information**12.1. Toxicity**

Harmful to aquatic life with long lasting effects.

| CAS No | Chemical name | | | | | |
|--------|--------------------------|---------------------|-----------|--------------------------|--|---|
| | Aquatic toxicity | Dose | [h] [d] | Species | Source | Method |
| | xylene (mix) | | | | | |
| | Acute fish toxicity | LC50 8,4 mg/l | 96 h | Oncorhynchus mykiss | Ecotoxicology and Environmental Safety. | OECD Guideline 203 |
| | Acute algae toxicity | ErC50 4,9 mg/l | 72 h | Raphidocelis subcapitata | Ecotoxicology and Environmental Safety. | OECD Guideline 201 |
| | Acute crustacea toxicity | EC50 mg/l > 3,4 | 48 h | Ceriodaphnia dubia | Ecotoxicology and Environmental Safety 3 | other: US EPA 600/4-91-003 |
| | Fish toxicity | NOEC mg/l > 1,3 | 56 d | Oncorhynchus mykiss | Appl. Sci. Branch, Eng. Res. Cent. Denve | Fish were exposed in artificial streams |
| | Crustacea toxicity | NOEC mg/l 1,17 | 7 d | Ceriodaphnia dubia | Ecotoxicology and Environmental Safety 3 | other: US EPA 600/4-91-003 |
| | Acute bacteria toxicity | EC50 mg/l () > 175 | 0,5 h | Activated sludge | Research Journal WPCF 60(10) 1850-1856 (| OECD Guideline 209 |

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

Partition coefficient n-octanol/water

| CAS No | Chemical name | Log Pow |
|--------|---------------|---------|
| | xylene (mix) | 3,2 |

BCF

| CAS No | Chemical name | BCF | Species | Source |
|--------|---------------|----------------|---------------------|----------------------|
| | xylene (mix) | > 5,5 - < 12,2 | Oncorhynchus mykiss | Appl. Sci. Branch, E |

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects

Do not allow to enter into surface water or drains.

Further information

Avoid release to the environment.

SECTION 13: Disposal considerations

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13.1. Waste treatment methods**Disposal recommendations**

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

Send to a physico-chemical treatment facility under observation of official regulations.

Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

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

SECTION 14: Transport information**Land transport (ADR/RID)**

| | |
|--|---------|
| 14.1. UN number or ID number: | UN 1307 |
| 14.2. UN proper shipping name: | XYLENES |
| 14.3. Transport hazard class(es): | 3 |
| 14.4. Packing group: | III |
| Hazard label: | 3 |
| Classification code: | F1 |
| Limited quantity: | 5 L |
| Excepted quantity: | E1 |
| Transport category: | 3 |
| Hazard No: | 30 |
| Tunnel restriction code: | D/E |

Inland waterways transport (ADN)

| | |
|--|---------|
| 14.1. UN number or ID number: | UN 1307 |
| 14.2. UN proper shipping name: | XYLENES |
| 14.3. Transport hazard class(es): | 3 |
| 14.4. Packing group: | III |
| Hazard label: | 3 |
| Classification code: | F1 |
| Limited quantity: | 5 L |
| Excepted quantity: | E1 |

Marine transport (IMDG)

| | |
|--|----------|
| 14.1. UN number or ID number: | UN 1307 |
| 14.2. UN proper shipping name: | XYLENES |
| 14.3. Transport hazard class(es): | 3 |
| 14.4. Packing group: | III |
| Hazard label: | 3 |
| Special Provisions: | 223 |
| Limited quantity: | 5 L |
| Excepted quantity: | E1 |
| EmS: | F-E, S-D |

Air transport (ICAO-TI/IATA-DGR)

| | |
|--|---------|
| 14.1. UN number or ID number: | UN 1307 |
| 14.2. UN proper shipping name: | XYLENES |
| 14.3. Transport hazard class(es): | 3 |
| 14.4. Packing group: | III |
| Hazard label: | 3 |
| Special Provisions: | A3 |
| Limited quantity Passenger: | 10 L |
| Passenger LQ: | Y344 |

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| | | |
|--|----|-------|
| Excepted quantity: | E1 | |
| IATA-packing instructions - Passenger: | | 355 |
| IATA-max. quantity - Passenger: | | 60 L |
| IATA-packing instructions - Cargo: | | 366 |
| IATA-max. quantity - Cargo: | | 220 L |

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40, Entry 75

Information according to Directive 2012/18/EU (SEVESO III): P5c FLAMMABLE LIQUIDS

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water hazard class (D): 2 - obviously hazardous to water

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 2.

Abbreviations and acronyms

Flam. Liq. 3: Flammable liquids, hazard category 3

Acute Tox. 4: Acute toxicity, hazard category 4

Asp. Tox. 1: Aspiration hazard, hazard category 1

Skin Irrit. 2: Skin irritation, hazard category 2

Eye Irrit. 2: Eye irritation, hazard category 2

STOT SE 3: Specific target organ toxicity - single exposure, hazard category 3

STOT RE 2: Specific target organ toxicity - repeated exposure, hazard category 2

Aquatic Chronic 3: Hazardous to the aquatic environment, long-term hazard category: Chronic 3

Relevant H and EUH statements (number and full text)

| | |
|-----------|---|
| H226 | Flammable liquid and vapour. |
| H304 | May be fatal if swallowed and enters airways. |
| H312 | Harmful in contact with skin. |
| H312+H332 | Harmful in contact with skin or if inhaled. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H373 | May cause damage to organs (auditory organs, liver, kidneys, central nervous system) through prolonged or repeated exposure if inhaled. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H412 | Harmful to aquatic life with long lasting effects. |

Further Information

Provide appropriate information, instructions and training to users

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

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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.

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.