

STUDLOCK

Creation date 08th April 2020
Revision date Version 2.0

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

- 1.1. Product identifier**
Substance / mixture mixture
Number R 34701
UFI 5J10-50W5-C10E-6UF9
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**
Mixture's intended use Anaerobic threadlocker.
Mixture uses advised against For professional use only.
- 1.3. Details of the supplier of the safety data sheet**
Supplier
Name or trade name RETECH, s.r.o.
Address Vackova 1541/4, Praha 5 - Stodůlky, 155 00
Czech Republic
Identification number (CRN) 25018205
VAT Reg No CZ25018205
Phone +420327596428
E-mail info@retech.cz
Web address www.retech.com
- Competent person responsible for the safety data sheet**
Name RETECH, s.r.o.
E-mail info@retech.cz
- 1.4. Emergency telephone number**
RETECH, Suchdol 212, 285 02 Suchdol u Kutné Hory, Czech Republic; Telephone number: +420 327 596 128 (7.30-16.00 hour)
Poisoning information centre, Na Bojišti 1, Praha, Czech Republic, Tel.: non-stop +420 224 919 293 or +420 224 915 402, Information on health risks only - acute poisoning of humans and animals.

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

The mixture is classified as dangerous.

Skin Irrit. 2, H315
Skin Sens. 1, H317
Eye Irrit. 2, H319
STOT SE 3, H335

Full text of all classifications and hazard statements is given in the section 16.

Most serious adverse effects on human health and the environment

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation.

2.2. Label elements
Hazard pictogram

Signal word
Warning

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Hazardous substances

 2-hydroxyethyl methacrylate
 cumene hydroperoxide

Hazard statements

 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H335 May cause respiratory irritation.

Precautionary statements

 P261 Avoid breathing vapours/spray.
 P271 Use only outdoors or in a well-ventilated area.
 P280 Wear protective gloves/protective clothing/eye protection.
 P302+P352 IF ON SKIN: Wash with plenty of water and soap.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P312 Call a POISON CENTER/doctor if you feel unwell.
 P405 Store locked up.

2.3. Other hazards

Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended. People who suffer from skins problems, asthma, allergies, chronic or recurring respiratory illnesses must not be deployed in processes, which use this product. Danger of slipping on spilled product.

SECTION 3: Composition/information on ingredients
3.2. Mixtures
Chemical characterization

Mixture of substances and additives specified below.

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

| Identification numbers | Substance name | Content in % weight | Classification according to Regulation (EC) No 1272/2008 | Note. |
|--------------------------------|-----------------------------|---------------------|--|-------|
| CAS: 868-77-9 EC: 212-782-2 | 2-hydroxyethyl methacrylate | 30-35 | Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 | |
| CAS: 79-10-7 EC: 201-177-9 | acrylic acid | <3 | Flam. Liq. 3, H226 Acute Tox. 4, H302+H312+ H332 Skin Corr. 1A, H314 Aquatic Acute 1, H400 | 1 |
| CAS: 80-15-9 EC: 201-254-7 | cumene hydroperoxide | <2,5 | Org. Perox. EF, H242 Acute Tox. 4, H302+H312 Skin Corr. 1B, H314 Acute Tox. 3, H331 STOT RE 2, H373 Aquatic Chronic 2, H411 | |
| CAS: 609-72-3 EC: 210-199-8 | N,N-dimethyl-o-toluidine | <1 | Acute Tox. 3, H301, H311, H331 STOT RE 2, H373 Aquatic Chronic 3, H412 | |

Notes

1 Substance for which exposure limits of Community for working environment exist.

Full text of all classifications and hazard statements is given in the section 16.

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

Remove contaminated clothes. And wash it before reuse. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet.

If inhaled

Terminate the exposure immediately; move the affected person to fresh air. In the event of issues, find medical help.

If on skin

Remove contaminated clothes. Wash with plenty of soap and water. Provide medical treatment if skin irritation persists.

If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Rinsing should continue at least for 10 minutes. Provide medical treatment, specialized if possible.

If swallowed

Rinse out the mouth with water and provide 2-5 dL of water. Do not provide anything by mouth if the person is unconscious or if having cramps. Provide medical treatment.

4.2. Most important symptoms and effects, both acute and delayed**If inhaled**

May cause respiratory irritation.

If on skin

May cause an allergic skin reaction.

If in eyes

Causes serious eye irritation.

If swallowed

not available

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

Symptomatic treatment.

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

Carbon dioxide, powder, water spray jet. Foam.

Unsuitable extinguishing media

Water - full jet.

5.2. Special hazards arising from the substance or mixture

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Nitrogen oxides (NO_x).

5.3. Advice for firefighters

Use a self-contained breathing apparatus and full-body protective clothing. Closed containers with the product near the fire should be cooled with water. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

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

Provide sufficient ventilation. Use personal protective equipment for work. Do not inhale aerosols. Prevent contact with skin and eyes. Remove contaminated clothes. And wash it before reuse.

6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water.

6.3. Methods and material for containment and cleaning up

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. After removal of the product, wash the contaminated site with plenty of water. Danger of slipping on spilled product.

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6.4. Reference to other sections
See the Section 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Provide sufficient ventilation. Ensure that eyewash stations and safety showers are close to the workstation location. Do not inhale aerosols. Prevent contact with skin and eyes. Use personal protective equipment as per Section 8. Wash hands and exposed parts of the body thoroughly after handling. Remove contaminated clothes. And wash it before reuse. Do not eat, drink or smoke when using this product. Observe valid legal regulations on safety and health protection.

7.2. Conditions for safe storage, including any incompatibilities

Keep only in original container. Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Protect from moisture. Protect from sunlight. Keep away from heat, open flames. Protect against frost. Do not store together with food, drink and animal feed. Do not store together with: Oxidising agent.

7.3. Specific end use(s)
not available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.

European Union

| Substance name (component) | Type | Time of exposure | Value | Note | Source |
|-----------------------------|------|------------------|----------------------|--|------------------------------------|
| acrylic acid (CAS: 79-10-7) | OEL | 8 hours | 29 mg/m ³ | Short-term exposure limit value in relation to a reference period of 1 minute. | Commission Directive (EU) 2017/164 |
| | OEL | 8 hours | 10 ppm | Short-term exposure limit value in relation to a reference period of 1 minute. | |
| | OEL | 15 minutes | 59 mg/m ³ | Short-term exposure limit value in relation to a reference period of 1 minute. | |
| | OEL | 15 minutes | 20 ppm | Short-term exposure limit value in relation to a reference period of 1 minute. | |

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| Substance name (component) | Type | Time of exposure | Value | Note | Source |
|-----------------------------|------|------------------|----------------------|---|--------|
| acrylic acid (CAS: 79-10-7) | WEL | 8 hours | 30 mg/m ³ | The UK Advisory Committee on Toxic Substances has expressed concern that, for the OELs shown in parentheses, health may not be adequately protected because of doubts that the limit was not soundly-based. These OELs were included in the published UK 2002 list and its 2003 supplement, but are omitted from the published 2005 list. | Gestis |
| | WEL | Short-term | 60 mg/m ³ | The UK Advisory Committee on Toxic Substances has expressed concern that, for the OELs shown in parentheses, health may not be adequately protected because of doubts that the limit was not soundly-based. These OELs were included in the published UK 2002 list and its 2003 supplement, but are omitted from the published 2005 list. | |
| | WEL | 8 hours | 10 ppm | The UK Advisory Committee on Toxic Substances has expressed concern that, for the OELs shown in parentheses, health may not be adequately protected because of doubts that the limit was not soundly-based. These OELs were included in the published UK 2002 list and its 2003 supplement, but are omitted from the published 2005 list. | |

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| Substance name (component) | Type | Time of exposure | Value | Note | Source |
|-----------------------------|------|------------------|--------|---|--------|
| acrylic acid (CAS: 79-10-7) | WEL | Short-term | 20 ppm | The UK Advisory Committee on Toxic Substances has expressed concern that, for the OELs shown in parentheses, health may not be adequately protected because of doubts that the limit was not soundly-based. These OELs were included in the published UK 2002 list and its 2003 supplement, but are omitted from the published 2005 list. | Gestis |

DNEL

2-hydroxyethyl methacrylate

| Workers / consumers | Route of exposure | Value | Effect | Determining method |
|---------------------|-------------------|-----------------------|--------------------------|--------------------|
| Workers | Inhalation | 4.9 mg/m ³ | Systemic chronic effects | |
| Workers | Dermal | 1.3 mg/kg bw/day | Systemic chronic effects | |
| Consumers | Inhalation | 2.9 mg/m ³ | Systemic chronic effects | |
| Consumers | Dermal | 0.83 mg/kg bw/day | Systemic chronic effects | |
| Consumers | Oral | 0.83 mg/kg | Systemic chronic effects | |

PNEC

2-hydroxyethyl methacrylate

| Route of exposure | Value | Determining method |
|---|------------------------------|--------------------|
| Freshwater environment | 0.482 mg/l | |
| Seawater | 0.482 mg/l | |
| Water (intermittent release) | 1 mg/l | |
| Microorganisms in wastewater treatment plants | 10 mg/l | |
| Freshwater sediment | 3.79 mg/kg of dry substance | |
| Sea sediments | 3.79 mg/kg of dry substance | |
| Soil (agricultural) | 0.476 mg/kg of dry substance | |

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8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. Take off contaminated clothing. And wash it before reuse. Prevent contact with skin and eyes. Do not inhale gases and vapours. Do not inhale aerosols. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

Tightly sealed goggles.

Skin protection

Hand protection: Protective gloves resistant to the product. Material of gloves: Butyl rubber. Recommended thickness of the material: 0.5 mm. Material of gloves: Fluororubber. Recommended thickness of the material: 0.4 mm. Material of gloves: chloroprene rubber. Recommended thickness of the material: 0.5 mm. Penetration time of glove material: > 480 min. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer. Other protection: protective workwear.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. Filter A-P2/P3. Use insulating breathing apparatus when the exposition limits of the substances are exceeded or at the place with insufficient ventilation.

Thermal hazard

Not available.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|--|---|
| Appearance | |
| Physical state | liquid at 20°C |
| color | colourless |
| Odour | characteristic |
| Odour threshold | data not available |
| pH | data not available |
| Melting point/freezing point | data not available |
| Initial boiling point and boiling range | data not available |
| Flash point | data not available |
| Evaporation rate | data not available |
| Flammability (solid, gas) | data not available |
| Upper/lower flammability or explosive limits | |
| flammability limits | data not available |
| explosive limits | data not available |
| Vapour pressure | data not available |
| Vapour density | data not available |
| Relative density | data not available |
| Solubility(ies) | |
| solubility in water | data not available |
| solubility in fats | data not available |
| Partition coefficient: n-octanol/water | data not available |
| Auto-ignition temperature | data not available |
| Decomposition temperature | data not available |
| Viscosity | data not available |
| Explosive properties | The product does not have explosive properties. |
| Oxidising properties | data not available |

9.2. Other information

| | |
|---------|--------------------|
| Density | data not available |
|---------|--------------------|

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SECTION 10: Stability and reactivity
10.1. Reactivity

See the Section 10.3.

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

Unknown.

10.4. Conditions to avoid

Keep away from heat, open flames. Protect from sunlight.

10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

10.6. Hazardous decomposition products

Not developed under normal uses.

SECTION 11: Toxicological information
11.1. Information on toxicological effects

No toxicological data is available for the mixture.

Acute toxicity

Based on available data the classification criteria are not met.

2-hydroxyethyl methacrylate

| Route of exposure | Parameter | Value | Time of exposure | Species | Sex | Determining method | Source |
|-------------------|------------------|-------------|------------------|---------|-----|--------------------|--------|
| Oral | LD ₅₀ | >5000 mg/kg | | Rat | | | |
| Dermal | LD ₅₀ | >5000 mg/kg | | Rabbit | | | |

acrylic acid

| Route of exposure | Parameter | Value | Time of exposure | Species | Sex | Determining method | Source |
|-----------------------|------------------|------------|------------------|---------|-----|--------------------|--------------|
| Oral | LD ₅₀ | 500 mg/kg | | Mouse | | | ATE |
| Dermal | LD ₅₀ | >294 mg/kg | | Rabbit | | | RTECS |
| Inhalation (vapor) | LC ₅₀ | >5.1 mg/l | 4 hour | Rat | | | ECHA Dossier |
| Inhalation (aerosols) | LC ₅₀ | 1.5 mg/l | | | | | ATE |

cumene hydroperoxide

| Route of exposure | Parameter | Value | Time of exposure | Species | Sex | Determining method | Source |
|-----------------------|------------------|-----------|------------------|---------|-----|--------------------|--------|
| Oral | LD ₅₀ | 382 mg/kg | | Rat | | | IUCLID |
| Dermal | LD ₅₀ | 500 mg/kg | | Rat | | | RTECS |
| Inhalation (vapor) | LC ₅₀ | 200 mg/l | 4 hour | Mouse | | | IUCLID |
| Inhalation (aerosols) | LC ₅₀ | 0.5 mg/l | | | | | ATE |

N,N-dimethyl-o-toluidine

| Route of exposure | Parameter | Value | Time of exposure | Species | Sex | Determining method | Source |
|-------------------|------------------|-----------|------------------|---------|-----|--------------------|--------|
| Oral | LC ₅₀ | 100 mg/kg | | | | | ATE |
| Dermal | LC ₅₀ | 300 mg/kg | | | | | ATE |

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N,N-dimethyl-o-toluidine

| Route of exposure | Parameter | Value | Time of exposure | Species | Sex | Determining method | Source |
|-----------------------|------------------|----------|------------------|---------|-----|--------------------|--------|
| Inhalation (vapor) | LC ₅₀ | 3 mg/l | | | | | ATE |
| Inhalation (aerosols) | LC ₅₀ | 0.5 mg/l | | | | | ATE |

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| Route of exposure | Parameter | Value | Time of exposure | Species | Sex | Determining method | Source |
|-------------------|-----------|-------------|------------------|---------|-----|----------------------|--------|
| Oral | ATE | >2000 mg/kg | | | | Calculation of value | |
| Dermal | ATE | >2000 mg/kg | | | | Calculation of value | |
| Inhalation | ATE | >20 mg/l | 4 hour | | | Calculation of value | |

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

May cause an allergic skin reaction.

Germ cell mutagenicity

Based on available data the classification criteria are not met.

2-hydroxyethyl methacrylate

| Result | Method | Time of exposure | Specific target organ | Species | Sex | Source |
|----------|---------|------------------|-----------------------|---------|-----|----------|
| Negative | in vivo | | | | | OECD 471 |

acrylic acid

| Result | Method | Time of exposure | Specific target organ | Species | Sex | Source |
|----------|---------|------------------|-----------------------|---------|-----|----------|
| Negative | in vivo | | | | | OECD 476 |

cumene hydroperoxide

| Result | Method | Time of exposure | Specific target organ | Species | Sex | Source |
|----------|---------|------------------|-----------------------|---------|-----|--------------|
| Negative | in vivo | | | | | ECHA Dossier |

Carcinogenicity

Based on available data the classification criteria are not met.

acrylic acid

| Route of exposure | Parameter | Value | Result | Species | Sex | Source |
|-------------------|-----------|-----------|--------|---------|-----|--------------|
| | NOAEL | ≥10 mg/kg | | | | ECHA Dossier |

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Reproductive toxicity

Based on available data the classification criteria are not met.

2-hydroxyethyl methacrylate

| | Parameter | Value | Result | Species | Sex | Source |
|--|-----------|-----------------|--------|---------|-----|--------------|
| | NOAEL | 50 mg/kg/24hour | | Rabbit | | ECHA Dossier |

acrylic acid

| | Parameter | Value | Result | Species | Sex | Source |
|--|-----------|------------|--------|---------|-----|--------------|
| | NOAEC | 0.075 mg/l | | Rat | | ECHA Dossier |

Toxicity for specific target organ - single exposure

May cause respiratory irritation.

Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

2-hydroxyethyl methacrylate

| Route of exposure | Parameter | Value | Time of exposure | Result | Species | Sex | Source |
|-------------------|-----------|-----------------|------------------|--------|---------|-----|--------------|
| Oral | NOAEL | 30 mg/kg/24hour | 90 day | | Rat | | ECHA Dossier |

acrylic acid

| Route of exposure | Parameter | Value | Time of exposure | Result | Species | Sex | Source |
|-------------------|-----------|------------|------------------|--------|---------|-----|--------------|
| Oral | NOAEL | 40 mg/kg | 90 day | | Rat | | ECHA Dossier |
| Inhalation | LOAEC | 0.015 mg/l | 90 day | | Rat | | ECHA Dossier |

cumene hydroperoxide

| Route of exposure | Parameter | Value | Time of exposure | Result | Species | Sex | Source |
|-------------------|-----------|----------------------|------------------|--------|---------|-----|--------------|
| Inhalation | NOAEC | 31 mg/m ³ | | | Rat | | ECHA Dossier |

Aspiration hazard

Based on available data the classification criteria are not met.

SECTION 12: Ecological information
12.1. Toxicity

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Acute toxicity

Data for the mixture are not available.

2-hydroxyethyl methacrylate

| Parameter | Value | Time of exposure | Species | Environment | Determining method | Source |
|-------------------|-----------|------------------|-----------------------------------|-------------|--------------------|--------------|
| LC ₅₀ | 227 mg/l | 96 hour | Fishes (Pimephales promelas) | | | |
| ErC ₅₀ | 836 mg/l | 72 hour | Algae (Selenastrum capricornutum) | | | |
| EC ₅₀ | >380 mg/l | 48 hour | Daphnia (Daphnia magna) | | Read-across | ECHA Dossier |

acrylic acid

| Parameter | Value | Time of exposure | Species | Environment | Determining method | Source |
|-------------------|-----------|------------------|---------------------------------|-------------|--------------------|--------------|
| LC ₅₀ | 27 mg/l | 96 hour | Fishes (Oncorhynchus mykiss) | | Read-across | ECHA Dossier |
| EC ₅₀ | 95 mg/l | 48 hour | Daphnia (Daphnia magna) | | Read-across | ECHA Dossier |
| ErC ₅₀ | 0.13 mg/l | 72 hour | Algae (Desmodesmus subspicatus) | | | |

cumene hydroperoxide

| Parameter | Value | Time of exposure | Species | Environment | Determining method | Source |
|-------------------|------------|------------------|---------------------------------|-------------|--------------------|--------------|
| LC ₅₀ | 3.9 mg/l | 96 hour | Fishes (Oncorhynchus mykiss) | | Read-across | ECHA Dossier |
| ErC ₅₀ | 3.1 mg/l | 72 hour | Algae (Desmodesmus subspicatus) | | | |
| EC ₅₀ | 18.84 mg/l | 48 hour | Daphnia (Daphnia magna) | | Read-across | ECHA Dossier |

12.2. Persistence and degradability
Biodegradability

2-hydroxyethyl methacrylate

| Parameter | Method | Value | Time of exposure | Environment | Result |
|-----------|-----------|-------|------------------|-------------|----------------------|
| | OECD 301C | >92 % | 14 day | | Easily biodegradable |

acrylic acid

| Parameter | Method | Value | Time of exposure | Environment | Result |
|-----------|-----------|-------|------------------|-------------|----------------------|
| | OECD 301D | 80 % | 28 day | | Easily biodegradable |

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cumene hydroperoxide

| Parameter | Method | Value | Time of exposure | Environment | Result |
|-----------|-----------|-------|------------------|-------------|----------------------|
| | OECD 301B | 3 % | 28 day | | Hardly biodegradable |

Data not available.

12.3. Bioaccumulative potential

2-hydroxyethyl methacrylate

| Parameter | Value | Time of exposure | Species | Environment | Surrounding temperature [°C] |
|-----------|-------|------------------|---------|-------------|------------------------------|
| Log Pow | 0.47 | | | | |

acrylic acid

| Parameter | Value | Time of exposure | Species | Environment | Surrounding temperature [°C] |
|-----------|-------|------------------|---------|-------------|------------------------------|
| Log Pow | 0.35 | | | | |

cumene hydroperoxide

| Parameter | Value | Time of exposure | Species | Environment | Surrounding temperature [°C] |
|-----------|-------|------------------|---------|-------------|------------------------------|
| Log Pow | 2.16 | | | | |

Not available.

12.4. Mobility in soil

Not available.

12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

12.6. Other adverse effects

Prevent contamination of the soil and entering surface or ground water.

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification.

Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

Waste type code

08 04 09 waste adhesives and sealants containing organic solvents or other hazardous substances *

Packaging waste type code

15 01 10 packaging containing residues of or contaminated by hazardous substances *

(*) - Hazardous waste according to Directive 2008/98/EC on hazardous waste

SECTION 14: Transport information**14.1. UN number**

Not subject to ADR

14.2. UN proper shipping name

not available

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14.3. Transport hazard class(es)

not available

14.4. Packing group

not available

14.5. Environmental hazards

not available

14.6. Special precautions for user

Reference in the Sections 4 to 8.

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

not available

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended.

15.2. Chemical safety assessment

not available

SECTION 16: Other information**A list of standard risk phrases used in the safety data sheet**

| | |
|----------------|--|
| H226 | Flammable liquid and vapour. |
| H242 | Heating may cause a fire. |
| H301 | Toxic if swallowed. |
| H311 | Toxic in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H331 | Toxic if inhaled. |
| H335 | May cause respiratory irritation. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| H302+H312 | Harmful if swallowed or in contact with skin. |
| H302+H312+H332 | Harmful if swallowed, in contact with skin or if inhaled. |

Guidelines for safe handling used in the safety data sheet

| | |
|----------------|--|
| P261 | Avoid breathing vapours/spray. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P280 | Wear protective gloves/protective clothing/eye protection. |
| P302+P352 | IF ON SKIN: Wash with plenty of water and soap. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P312 | Call a POISON CENTER/doctor if you feel unwell. |
| P405 | Store locked up. |

Other important information about human health protection

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The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

Key to abbreviations and acronyms used in the safety data sheet

| | |
|------------------|---|
| ADR | European agreement concerning the international carriage of dangerous goods by road |
| BCF | Bioconcentration Factor |
| CAS | Chemical Abstracts Service |
| CLP | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures |
| DNEL | Derived no-effect level |
| EC | Identification code for each substance listed in EINECS |
| EC ₅₀ | Concentration of a substance when it is affected 50% of the population |
| EINECS | European Inventory of Existing Commercial Chemical Substances |
| EmS | Emergency plan |
| EU | European Union |
| IATA | International Air Transport Association |
| IBC | International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals |
| IC ₅₀ | Concentration causing 50% blockade |
| ICAO | International Civil Aviation Organization |
| IMDG | International Maritime Dangerous Goods |
| INCI | International Nomenclature of Cosmetic Ingredients |
| ISO | International Organization for Standardization |
| IUPAC | International Union of Pure and Applied Chemistry |
| LC ₅₀ | Lethal concentration of a substance in which it can be expected death of 50% of the population |
| LD ₅₀ | Lethal dose of a substance in which it can be expected death of 50% of the population |
| LOAEC | Lowest observed adverse effect concentration |
| LOAEL | Lowest observed adverse effect level |
| log Kow | Octanol-water partition coefficient |
| MARPOL | International Convention for the Prevention of Pollution From Ships |
| NOAEC | No observed adverse effect concentration |
| NOAEL | No observed adverse effect level |
| NOEC | No observed effect concentration |
| NOEL | No observed effect level |
| OEL | Occupational Exposure Limits |
| PBT | Persistent, Bioaccumulative and Toxic |
| PNEC | Predicted no-effect concentration |
| ppm | Parts per million |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals |
| RID | Agreement on the transport of dangerous goods by rail |
| UN | Four-figure identification number of the substance or article taken from the UN Model Regulations |
| UVCB | Substances of unknown or variable composition, complex reaction products or biological materials |
| VOC | Volatile organic compounds |
| vPvB | Very Persistent and very Bioaccumulative |
| Acute Tox. | Acute toxicity |
| Aquatic Acute | Hazardous to the aquatic environment |
| Aquatic Chronic | Hazardous to the aquatic environment |
| Eye Irrit. | Eye irritation |

STUDLOCK

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|---------------|-----------------|---------|-----|
| Creation date | 08th April 2020 | Version | 2.0 |
| Revision date | | | |

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| Flam. Liq. | Flammable liquid |
| Org. Perox. | Organic peroxide |
| Skin Corr. | Skin corrosion |
| Skin Irrit. | Skin irritation |
| Skin Sens. | Skin sensitization |
| STOT RE | Specific target organ toxicity - repeated exposure |
| STOT SE | Specific target organ toxicity - single exposure |

Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

Recommended restrictions of use

not available

Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

The changes (which information has been added, deleted or modified)

The version 2.0 replaces the SDS version from 11.06.2018. Changes were made in sections 2-16.

Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.