# AQUA SHINE HARDENER

Safety Data Sheet

SDS EU format according to COMMISSION REGULATION (EU) 2020/878
Issue date: 12/11/2024 Revision date: 12/11/2024 Version: 1.0

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

### 1.1. Product identifier

Product form : Mixture
Name : Hardener
Trade name : AQUA SHINE HARDENER

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

**Relevant identified uses**

Main use category : Professional use
Use of the substance/mixture : The product is intended for professional use

### 1.3. Details of the supplier of the safety data sheet

**Manufacturer**
NOVOL Sp. z o.o.
Żabikowska 7/9
62-052 KOMORNIKI, Poland
Poland
T +48618109800, F +48618109809
sekretariat@novol.com, www.novol.com
E-mail address of competent person responsible for the SDS :
dokumentacja@novol.com

### 1.4. Emergency telephone number

Emergency number : 112

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**Classification according to Regulation (EC) No. 1272/2008 [CLP]**

| | |
|---|---|
| Flammable liquids, Category 3 | H226 |
| Acute toxicity (inhal.), Category 4 | H332 |
| Skin corrosion/irritation, Category 2 | H315 |
| Serious eye damage/eye irritation, Category 2 | H319 |
| Skin sensitisation, Category 1 | H317 |
| Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation | H335 |
| Hazardous to the aquatic environment – Chronic Hazard, Category 3 | H412 |

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

**Adverse physicochemical, human health and environmental effects**

No additional information available

### 2.2. Label elements

**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

Hazard pictograms (CLP) :

GHS02 GHS07

Signal word (CLP) : Warning
Contains : N,N-Dimethyl cyclohexanamine

| | | |
|---|---|---|
| Hazard statements (CLP) | : | H226 - Flammable liquid and vapour.<br>H315 - Causes skin irritation.<br>H317 - May cause an allergic skin reaction.<br>H319 - Causes serious eye irritation.<br>H332 - Harmful if inhaled.<br>H335 - May cause respiratory irritation.<br>H412 - Harmful to aquatic life with long lasting effects. |
| Precautionary statements (CLP) | : | P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.<br>P261 - Avoid breathing vapours, spray.<br>P271 - Use only outdoors or in a well-ventilated area.<br>P280 - Wear protective gloves, protective clothing, eye protection, face protection.<br>P312 - Call doctor if you feel unwell. |

### 2.3. Other hazards

| | | |
|---|---|---|
| Other hazards which do not result in classification | : | Can react violently with alkalis, as well as a lot of organic products such as alcohols and amines. Reacts with water, generates gases or heat and overpressure : rupture containers. Polymerizes on exposure to temperature rise: pressure build-up may cause closed container to burst. |

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|---|---|---|
| Blocked Polyisocyanate Based on Hexamethylene Diisocyanate (HDI)<br>(Polymer) | CAS-No.: 666723-27-9<br>EC-No.: 679-494-0 | < 67 | Acute Tox. 4 (Inhalation), H332 (ATE=1.5 mg/l/4h)<br>Skin Sens. 1, H317<br>STOT SE 3, H335<br>Aquatic Chronic 3, H412 |
| propylene carbonate | CAS-No.: 108-32-7<br>EC-No.: 203-572-1<br>EC Index-No.: 607-194-00-1<br>REACH-no: 01-2119537232-48 | < 20 | Eye Irrit. 2, H319 |
| 5-Isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane homopolymer | CAS-No.: 53880-05-0<br>EC-No.: 500-125-5 | < 17 | Skin Sens. 1, H317 |
| n-butyl acetate<br>substance with national workplace exposure limit(s) (GB); substance with a Community workplace exposure limit | CAS-No.: 123-86-4<br>EC-No.: 204-658-1<br>EC Index-No.: 607-025-00-1<br>REACH-no: 01-2119485493-29 | < 7 | Flam. Liq. 3, H226<br>STOT SE 3, H336<br>EUH066 |

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|---|---|---|
| N,N-Dimethyl cyclohexanamine | CAS-No.: 98-94-2<br>REACH-no: 01-2119533030-60 | < 1.2 | Flam. Liq. 3, H226<br>Acute Tox. 3 (Oral), H301 (ATE=100 mg/kg bodyweight)<br>Acute Tox. 3 (Dermal), H311 (ATE=300 mg/kg bodyweight)<br>Acute Tox. 3 (Inhalation), H331<br>Skin Corr. 1, H314<br>Eye Dam. 1, H318<br>Aquatic Chronic 1, H410 (M=1) |
| hexamethylene-di-isocyanate<br>(Note 2) | CAS-No.: 822-06-0<br>EC-No.: 212-485-8<br>EC Index-No.: 615-011-00-1<br>REACH-no: 01-2119457571-37 | < 0.07 | Acute Tox. 3 (Inhalation), H331 (ATE=0.5 mg/l/4h)<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Resp. Sens. 1, H334<br>Skin Sens. 1, H317<br>STOT SE 3, H335 |

| Specific concentration limits: | | |
|---|---|---|
| **Name** | **Product identifier** | **Specific concentration limits (%)** |
| hexamethylene-di-isocyanate | CAS-No.: 822-06-0<br>EC-No.: 212-485-8<br>EC Index-No.: 615-011-00-1<br>REACH-no: 01-2119457571-37 | (0.5 ≤ C ≤ 100) Resp. Sens. 1; H334<br>(0.5 ≤ C ≤ 100) Skin Sens. 1; H317 |

Note 2: The concentration of isocyanate stated is the percentage by weight of the free monomer calculated with reference to the total weight of the mixture.

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : General information. Refer to section 11.

First-aid measures after inhalation : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

First-aid measures after skin contact : After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention. If skin irritation continues, consult a doctor.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

First-aid measures after ingestion : If swallowed: rinse mouth. Do NOT induce vomiting. Call a physician immediately.

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

Symptoms/effects after inhalation : Vapours may cause drowsiness and dizziness.

Symptoms/effects after skin contact : Prolonged or repeated contact may cause skin to become dry.

Symptoms/effects after eye contact : May cause eye irritation.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Dry chemical, CO2, alcohol-resistant foam or waterspray.
Unsuitable extinguishing media : Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Carbon monoxide. Nitrogen oxides. Other toxic gases.

### 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel**

Protective equipment : Remove ignition sources. Ensure that there is a suitable ventilation system. Avoid any direct or indirect contact with ingredients released. Avoid contact with skin and eyes. Use personal protective equipment as required. See Section 8.

**For emergency responders**

Protective equipment : Do not attempt to take action without suitable protective equipment. See Section 8.

### 6.2. Environmental precautions

Avoid release to the environment. Do not allow to enter into surface water or drains. Do not allow product to reach ground water, water bodies or sewage system, even in small quantities.

### 6.3. Methods and material for containment and cleaning up

For containment : Cover spill with non combustible material, e.g.: sand, earth, vermiculite. Mechanically recover the product.

### 6.4. Reference to other sections

Disposal considerations. See Section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only outdoors or in a well-ventilated area. Wear personal protective equipment.
Hygiene measures : Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Ground/bond container and receiving equipment.
Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed. Protect from moisture. Protect against frost.
Storage temperature : 5 – 35 °C

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

**National occupational exposure and biological limit values**

| n-butyl acetate (123-86-4) | |
|---|---|
| **EU - Indicative Occupational Exposure Limit (IOEL)** | |
| Local name | n-Butyl acetate |
| IOEL TWA | 241 mg/m³ |
| | 50 ppm |
| IOEL STEL | 723 mg/m³ |
| | 150 ppm |
| Regulatory reference | COMMISSION DIRECTIVE (EU) 2019/1831 |
| **United Kingdom - Occupational Exposure Limits** | |
| Local name | Butyl acetate |
| WEL TWA (OEL TWA) | 724 mg/m³ |
| | 150 ppm |
| WEL STEL (OEL STEL) | 966 mg/m³ |
| | 200 ppm |
| Regulatory reference | EH40/2005 (Fourth edition, 2020). HSE |

**Recommended monitoring procedures**

| Monitoring methods | |
|---|---|
| Monitoring methods | EN 482. Workplace exposure - General requirements for the performance of procedures for the measurement of chemical agents. |

**DNEL and PNEC**

| hexamethylene-di-isocyanate (822-06-0) | |
|---|---|
| **DNEL/DMEL (Workers)** | |
| Acute - local effects, inhalation | 0.07 mg/m³ |
| Long-term - local effects, inhalation | 0.035 mg/m³ |
| **PNEC (STP)** | |
| PNEC sewage treatment plant | 8.42 mg/l |

### 8.2. Exposure controls

**Appropriate engineering controls**

**Appropriate engineering controls:**
Ensure good ventilation of the work station.

**Personal protection equipment**

**Personal protective equipment symbol(s):**

**Eye and face protection**

**Eye protection:**
Safety glasses

**Skin protection**

**Skin and body protection:**
Wear suitable protective clothing

**Hand protection:**
Protective gloves

| Hand protection | | | | | |
|---|---|---|---|---|---|
| **Type** | **Material** | **Permeation** | **Thickness (mm)** | **Penetration** | **Standard** |
| Disposable gloves | Viton® II | 6 (> 480 minutes) | 0,7 mm | | EN 374-3 |
| Disposable gloves | Nitrile rubber (NBR) | 2 (> 30 minutes) | 0,4 mm | | EN 374-3 |

**Respiratory protection**

**Respiratory protection:**
In case of insufficient ventilation, wear suitable respiratory equipment

| Respiratory protection | | | |
|---|---|---|---|
| **Device** | **Filter type** | **Condition** | **Standard** |
| Gas mask with filter type | Filter A1/B1 | | EN 14387 |

**Environmental exposure controls**

**Environmental exposure controls:**
Avoid release to the environment.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

| | | |
|---|---|---|
| Physical state | : | Liquid |
| Colour | : | Colourless. |
| Odour | : | characteristic. |
| Odour threshold | : | Not available |
| Melting point | : | Not applicable |
| Freezing point | : | Not available |
| Boiling point | : | 127 °C |
| Flammability | : | Not applicable |
| Explosive properties | : | No data available. |
| Lower explosion limit | : | Not available |
| Upper explosion limit | : | Not available |
| Flash point | : | 34 °C |
| Auto-ignition temperature | : | Not available |
| Decomposition temperature | : | Not available |
| pH | : | Not available |
| Viscosity, kinematic | : | Not available |
| Solubility | : | Slightly soluble. |
| Partition coefficient n-octanol/water (Log Kow) | : | Not available |
| Vapour pressure | : | Not available |
| Vapour pressure at 50°C | : | Not available |
| Density | : | ≈ 1.1 g/cm³ |
| Relative density | : | Not available |
| Relative vapour density at 20°C | : | Not available |
| Particle characteristics | : | Not applicable |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions of use.

### 10.3. Possibility of hazardous reactions

Can react violently with alkalis, as well as a lot of organic products such as alcohols and amines. Reacts with water, generates gases or heat and overpressure : rupture containers. Polymerizes on exposure to temperature rise: pressure build-up may cause closed container to burst.

### 10.4. Conditions to avoid

Keep away from sources of ignition. Prevent build-up of electrostatic charges (e.g, by grounding). Protect from sunlight. Avoid high temperatures. Protect from moisture. Keep out of frost.

### 10.5. Incompatible materials

No contact with: strong acids, strong bases and strong oxidants. Do not allow contact with water.

### 10.6. Hazardous decomposition products

Carbon monoxide. Nitrogen oxides. Other toxic gases.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation) : Harmful if inhaled.

| **AQUA SHINE HARDENER** | |
|---|---|
| ATE CLP (gases) | 4500 ppmv/4h |
| ATE CLP (vapours) | 11 mg/l/4h |
| ATE CLP (dust,mist) | 1.5 mg/l/4h |

| **hexamethylene-di-isocyanate (822-06-0)** | |
|---|---|
| LD50 oral rat | 710 mg/kg Source: NCIS; Toxic Substances Information Report |
| LD50 dermal rat | > 7000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity) |
| LD50 dermal rabbit | 599 mg/kg Source: NCIS; Toxic Substances Information Report |
| LC50 Inhalation - Rat | 0.124 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), Remarks on results: other:, 95% CL: 111 - 140 |
| LC50 Inhalation - Rat (Vapours) | 0.24 mg/l Source: NCIS; Toxic Substances Information Report |

| **N,N-Dimethyl cyclohexanamine (98-94-2)** | |
|---|---|
| LD50 oral rat | > 5000 mg/kg |
| LD50 dermal rat | > 40 mg/kg |
| LC50 Inhalation - Rat (Vapours) | 4.45 mg/l |

| n-butyl acetate (123-86-4) | |
|---|---|
| LD50 oral rat | 12.2 ml/kg Source: ECHA |
| LC50 Inhalation - Rat (Vapours) | > 4.9 mg/l Source: ECHA |

| propylene carbonate (108-32-7) | |
|---|---|
| LD50 oral rat | > 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity) |
| LD50 dermal rabbit | ≥ 2000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity) |
| LC50 Inhalation - Rat | > 5000 mg/m³ Source: chemIDplus |

Skin corrosion/irritation : Causes skin irritation.

| N,N-Dimethyl cyclohexanamine (98-94-2) | |
|---|---|
| pH | 12 |

| n-butyl acetate (123-86-4) | |
|---|---|
| pH | 6.2 Temp.: 20 °C Concentration: 5,3 g/L |

Serious eye damage/irritation : Causes serious eye irritation.

| N,N-Dimethyl cyclohexanamine (98-94-2) | |
|---|---|
| pH | 12 |

| n-butyl acetate (123-86-4) | |
|---|---|
| pH | 6.2 Temp.: 20 °C Concentration: 5,3 g/L |

Respiratory or skin sensitisation : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)

Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)

Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)

STOT-single exposure : May cause respiratory irritation.

| hexamethylene-di-isocyanate (822-06-0) | |
|---|---|
| STOT-single exposure | May cause respiratory irritation. |

| Blocked Polyisocyanate Based on Hexamethylene Diisocyanate (HDI) (666723-27-9) | |
|---|---|
| STOT-single exposure | May cause respiratory irritation. |

| n-butyl acetate (123-86-4) | |
|---|---|
| STOT-single exposure | May cause drowsiness or dizziness. |

STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)

| n-butyl acetate (123-86-4) | |
|---|---|
| LOAEL (oral, rat, 90 days) | 500 mg/kg bodyweight Animal: rat, Guideline: EPA OTS 798.2650 (90-Day Oral Toxicity in Rodents) |
| NOAEL (oral, rat, 90 days) | 125 mg/kg bodyweight Animal: rat, Guideline: EPA OTS 798.2650 (90-Day Oral Toxicity in Rodents) |

| propylene carbonate (108-32-7) | |
|---|---|
| NOAEL (oral, rat, 90 days) | > 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) |

Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

| n-butyl acetate (123-86-4) | |
|---|---|
| Viscosity, kinematic | 0.83 mm²/s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm²/s)' |

### 11.2. Information on other hazards

**Endocrine disrupting properties**

Adverse health effects caused by endocrine disrupting properties : The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

## SECTION 12: Ecological information

### 12.1. Toxicity

Hazardous to the aquatic environment, short–term (acute) : Not classified (Based on available data, the classification criteria are not met)

Hazardous to the aquatic environment, long–term (chronic) : Harmful to aquatic life with long lasting effects.

| **hexamethylene-di-isocyanate (822-06-0)** | |
|---|---|
| LC50 - Fish [1] | ≥ 82.8 mg/l Source: ECHA |
| EC50 72h - Algae [1] | > 77.4 mg/l Source: ECHA |

| **N,N-Dimethyl cyclohexanamine (98-94-2)** | |
|---|---|
| LC50 - Fish [1] | 46 mg/l Source: IUCLID |
| EC50 - Crustacea [1] | 75 mg/l Source: IUCLID |
| EC50 72h - Algae [1] | 0.309 mg/l Source: IUCLID |

| **n-butyl acetate (123-86-4)** | |
|---|---|
| LC50 - Fish [1] | 18 mg/l Source: ECHA |
| EC50 - Crustacea [1] | 44 mg/l Source: ECHA |
| EC50 - Other aquatic organisms [1] | 32 mg/l Test organisms (species): Artemia salina |
| EC50 72h - Algae [1] | 674.7 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) |
| EC50 72h - Algae [2] | 246 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| LOEC (chronic) | 47.6 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
| NOEC (chronic) | 23.2 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |

| **propylene carbonate (108-32-7)** | |
|---|---|
| LC50 - Fish [1] | > 1000 mg/l Test organisms (species): Cyprinus carpio |
| EC50 - Crustacea [1] | > 1000 mg/l Test organisms (species): Daphnia magna |
| EC50 72h - Algae [1] | > 929 mg/l Test organisms (species): Selenastrum sp. |

### 12.2. Persistence and degradability

| **AQUA SHINE HARDENER** | |
|---|---|
| Persistence and degradability | Not rapidly degradable |

| **hexamethylene-di-isocyanate (822-06-0)** | |
|---|---|
| Persistence and degradability | Not rapidly degradable |

| N,N-Dimethyl cyclohexanamine (98-94-2) | |
|---|---|
| Persistence and degradability | Not rapidly degradable |

| Blocked Polyisocyanate Based on Hexamethylene Diisocyanate (HDI) (666723-27-9) | |
|---|---|
| Persistence and degradability | Not rapidly degradable |

| 5-Isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane homopolymer (53880-05-0) | |
|---|---|
| Persistence and degradability | Not rapidly degradable |

| n-butyl acetate (123-86-4) | |
|---|---|
| Persistence and degradability | Not rapidly degradable |

| propylene carbonate (108-32-7) | |
|---|---|
| Persistence and degradability | Not rapidly degradable |

### 12.3. Bioaccumulative potential

| hexamethylene-di-isocyanate (822-06-0) | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | 1.08 Source: ICSC |

| N,N-Dimethyl cyclohexanamine (98-94-2) | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | 2.01 Source: IUCLID |

| n-butyl acetate (123-86-4) | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | 1.78 Source: HSDB |

| propylene carbonate (108-32-7) | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | -0.41 Source: National Library of Medicine |

### 12.4. Mobility in soil

| hexamethylene-di-isocyanate (822-06-0) | |
|---|---|
| Mobility in soil | 5 – 286 Source: ECHA |

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %.

### 12.7. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Regional waste regulation : Disposal must be done according to official regulations.

Waste treatment methods : Dispose of contents/container in accordance with licensed collector’s sorting instructions.

Sewage disposal recommendations : Do not discharge into drains.

| | | |
|---|---|---|
| Product/Packaging disposal recommendations | : | This material and its container must be disposed of as hazardous waste. Do not dispose of with domestic waste. After cleaning, recycle or dispose of at an authorised site. |
| Additional information | : | Flammable vapours may accumulate in the container. |
| European List of Waste (LoW, EC 2000/532) | : | 08 05 01* - waste isocyanates<br>15 01 10* - packaging containing residues of or contaminated by dangerous substances<br>European List of Waste (LoW, EC 2000/532) |

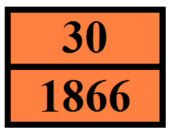
## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

| ADR | IMDG | IATA |
|---|---|---|
| **14.1. UN number or ID number** | | |
| UN 1866 | UN 1866 | UN 1866 |
| **14.2. UN proper shipping name** | | |
| RESIN SOLUTION | RESIN SOLUTION | Resin solution |
| **Transport document description** | | |
| UN 1866 RESIN SOLUTION, 3, III, (D/E) | UN 1866 RESIN SOLUTION, 3, III (34°C c.c.) | UN 1866 Resin solution, 3, III |
| **14.3. Transport hazard class(es)** | | |
| 3 | 3 | 3 |
|  |  |  |
| **14.4. Packing group** | | |
| III | III | III |
| **14.5. Environmental hazards** | | |
| Dangerous for the environment: No | Dangerous for the environment: No<br>Marine pollutant: No<br>EmS-No. (Fire): F-E<br>EmS-No. (Spillage): S-E | Dangerous for the environment: No |
| No supplementary information available | | |

### 14.6. Special precautions for user

**Overland transport**

| | | |
|---|---|---|
| Classification code (ADR) | : | F1 |
| Limited quantities (ADR) | : | 5l |
| Special packing provisions (ADR) | : | PP1 |
| Mixed packing provisions (ADR) | : | MP19 |
| Transport category (ADR) | : | 3 |
| Special provisions for carriage - Packages (ADR) | : | V12 |
| Orange plates | : |  |
| Tunnel restriction code (ADR) | : | D/E |
| EAC code | : | •3Y |

**Transport by sea**

| | | |
|---|---|---|
| Special provisions (IMDG) | : | 223, 955 |
| Limited quantities (IMDG) | : | 5 L |
| Special packing provisions (IMDG) | : | PP1 |
| Stowage category (IMDG) | : | A |

**Air transport**
No data available

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## SECTION 15: Regulatory information

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

**EU-Regulations**

**REACH Annex XVII (Restriction List)**

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

**REACH Annex XIV (Authorisation List)**

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

**REACH Candidate List (SVHC)**

Contains no substance(s) listed on the REACH Candidate List

**PIC Regulation (Prior Informed Consent)**

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

**POP Regulation (Persistent Organic Pollutants)**

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

**Ozone Regulation (2024/590)**

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

**Council Regulation (EC) for the control of dual-use items**

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

**Explosives Precursors Regulation (2019/1148)**

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

**Drug Precursors Regulation (273/2004)**

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

**National regulations**

**Germany**

| Air Quality Control (TA Luft) | | | | | |
|---|---|---|---|---|---|
| Category | Class | Applicable on | Local name | Max. mass flow | Max. mass concentration |

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

**Indication of changes:**
SECTION 8. SECTION 12.

| Abbreviations and acronyms: | |
|---|---|
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |

| Abbreviations and acronyms: | |
|---|---|
| ATE | Acute Toxicity Estimate |
| BCF | Bioconcentration factor |
| BLV | Biological limit value |
| BOD | Biochemical oxygen demand (BOD) |
| COD | Chemical oxygen demand (COD) |
| DMEL | Derived Minimal Effect level |
| DNEL | Derived-No Effect Level |
| EC-No. | European Community number |
| EC50 | Median effective concentration |
| EN | European Standard |
| IARC | International Agency for Research on Cancer |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| LC50 | Median lethal concentration |
| LD50 | Median lethal dose |
| LOAEL | Lowest Observed Adverse Effect Level |
| NOAEC | No-Observed Adverse Effect Concentration |
| NOAEL | No-Observed Adverse Effect Level |
| NOEC | No-Observed Effect Concentration |
| OECD | Organisation for Economic Co-operation and Development |
| OEL | Occupational Exposure Limit |
| PBT | Persistent Bioaccumulative Toxic |
| PNEC | Predicted No-Effect Concentration |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS | Safety Data Sheet |
| STP | Sewage treatment plant |
| ThOD | Theoretical oxygen demand (ThOD) |
| TLM | Median Tolerance Limit |
| VOC | Volatile Organic Compounds |
| CAS-No. | Chemical Abstract Service number |
| N.O.S. | Not Otherwise Specified |
| vPvB | Very Persistent and Very Bioaccumulative |
| ED | Endocrine disruptor |

Data sources : ECHA (European Chemicals Agency).

Training advice : Handle in accordance with good industrial hygiene and safety procedures.

| Full text of H- and EUH-statements: | |
|---|---|
| Acute Tox. 3 (Dermal) | Acute toxicity (dermal), Category 3 |
| Acute Tox. 3 (Inhalation) | Acute toxicity (inhal.), Category 3 |

| Full text of H- and EUH-statements: | |
|---|---|
| Acute Tox. 3 (Oral) | Acute toxicity (oral), Category 3 |
| Acute Tox. 4 (Inhalation) | Acute toxicity (inhal.), Category 4 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment – Chronic Hazard, Category 1 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment – Chronic Hazard, Category 3 |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Flam. Liq. 3 | Flammable liquids, Category 3 |
| Resp. Sens. 1 | Respiratory sensitisation, Category 1 |
| Skin Corr. 1 | Skin corrosion/irritation, Category 1 |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| Skin Sens. 1 | Skin sensitisation, Category 1 |
| STOT SE 3 | Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation |
| H226 | Flammable liquid and vapour. |
| 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. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H331 | Toxic if inhaled. |
| H332 | Harmful if inhaled. |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |

| Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]: | | |
|---|---|---|
| Flam. Liq. 3 | H226 | On basis of test data |
| Acute Tox. 4 (Inhalation) | H332 | Expert judgement |
| Skin Irrit. 2 | H315 | Calculation method |
| Eye Irrit. 2 | H319 | Calculation method |
| Skin Sens. 1 | H317 | Calculation method |
| STOT SE 3 | H335 | Calculation method |
| Aquatic Chronic 3 | H412 | Calculation method |