

The safety data sheet complies with Commission Regulation (EU) 878/2020 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) .

NOVAREZ

| | | | |
|---------------|--------------------|---------|----|
| Creation date | 22nd October 2003 | Version | 18 |
| Revision date | 20th December 2022 | | |

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

1.1. Product identifier NOVAREZ
Substance / mixture mixture

1.2. Relevant identified uses of the substance or mixture and uses advised against
Mixture's intended use

Rust solvent

The use descriptors

IS Use at industrial sites
PW Widespread use by professional workers

Mixture uses advised against

The product should not be used in ways other than those referred in Section 1.

1.3. Details of the supplier of the safety data sheet

Supplier

| | |
|-----------------------------|--|
| Name or trade name | NOVATO |
| Address | Uralská 770/6, Praha, 160 00 Czech Republic |
| Identification number (CRN) | 62910370 |
| VAT Reg No | CZ62910370 |
| Phone | +420 233 339 688 |
| E-mail | petr.johanides@novato.cz |
| Web address | www.novato.cz |

Competent person responsible for the safety data sheet

| | |
|--------|----------------|
| Name | ABITEC |
| E-mail | info@abitec.cz |

1.4. Emergency telephone number

European emergency number: 112

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.

Aerosol 1, H229, H222
Aquatic Chronic 3, H412

Most serious adverse physico-chemical effects

The mixture is extremely flammable. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 ° C. Do not puncture or throw an empty container into a fire. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Keep out of reach of children.

Most serious adverse effects on human health and the environment

Inhalation of the aerosol may cause headaches, fatigue, drowsiness. Do not breathe aerosol. Frequent or prolonged skin contact causes dryness or cracking of the skin to dermatitis. Ingestion of the liquid phase can cause abdominal pain and nausea. Follow the instructions in the operating instructions. The mixture is classified as harmful to the environment. Follow the instructions for use to avoid risks to humans and the environment. The liquid is lighter than water and can cover the water surface. The mixture must not get into the soil, groundwater or surface water or sewage system. For the full text of the H-Statements mentioned in this Section, see Section 16 of this Safety Data Sheet.

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2.2. Label elements

Hazard pictogram



Signal word

Danger

Hazard statements

H222 Extremely flammable aerosol.
 H229 Pressurised container: May burst if heated.
 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.
 P211 Do not spray on an open flame or other ignition source.
 P251 Do not pierce or burn, even after use.
 P260 Do not breathe spray.
 P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Supplemental information

EUH066 Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards

Neither the mixture nor its components meet the criteria for persistent, bioaccumulative and toxic or highly persistent and highly bioaccumulative substances in accordance with Annex XIII, nor have they been included in the list drawn up in accordance with Article 59, paragraph 1, due to the content of endocrine disruptors , nor has it been determined as a substance with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixture.

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 |
|--|---|---------------------|---|------|
| EC: 918-481-9 Registration number: 01-2119457273-39-XXXX | Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics | 25-50 | Flam. Liq. 3, H226 Asp. Tox. 1, H304 EUH066 | 3 |
| Index: 601-006-00-1 CAS: 109-66-0 EC: 203-692-4 | pentane | 12,5-20 | Flam. Liq. 2, H225 Asp. Tox. 1, H304 STOT SE 3, H336 Aquatic Chronic 2, H411 EUH066 Specific concentration limit: STOT SE 3, H336: C ≥ 20 % | 1, 3 |
| Index: 601-003-00-5 CAS: 74-98-6 EC: 200-827-9 | propane | 5-10 | Press. Gas, Flam. Gas 1, H220 | 2 |

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| Identification numbers | Substance name | Content in % weight | Classification according to Regulation (EC) No 1272/2008 | Note |
|---|----------------|---------------------|--|------|
| Index: 601-004-00-0 CAS: 106-97-8 EC: 203-448-7 | butane | 5-10 | Press. Gas, Flam. Gas 1, H220 | 1, 2 |
| Index: 601-004-00-0 CAS: 75-28-5 EC: 200-857-2 | isobutane | 5-10 | Press. Gas, Flam. Gas 1, H220 | 1, 2 |

Notes

- Note C: Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.
- Note U (Table 3): When put on the market gases have to be classified as "Gases under pressure", in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case. The following codes are assigned:

Press. Gas (Comp.)
Press. Gas (Liq.)
Press. Gas (Ref. Liq.)
Press. Gas (Diss.)

Aerosols shall not be classified as gases under pressure (See Annex I, Part 2, Section 2.3.2.1, Note 2).

- A substance for which exposure limits are set.

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

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of health problems or in case of doubt, consult a physician and provide him with the information in this safety data sheet. In case of life-threatening conditions, perform resuscitation. Keep unconscious person in a stabilized position and do not give anything by mouth. Avoid cooling. Do not induce vomiting. In case of spontaneous vomiting, avoid inhalation of vomitus. If burns occur, cool the burn with cold water and cover with a clean cloth.

If inhaled

If inhaled, leave the area, rinse the mouth with water, inhale fresh air. If breathing is difficult, give first aid and seek medical advice.

If on skin

Wipe the product, wash thoroughly with lukewarm water, soap and treat with regenerating cream. If clothing is contaminated, remove clothing. Seek medical attention if irritation develops.

If in eyes

If the affected person has contact lenses, remove them. Flush eyes wide open from the inner corner of the eye towards the outside with plenty of clean lukewarm water, especially the area under the eyelids. Rinse for at least 15 minutes, seek medical attention.

If swallowed

In the case of an aerosol product, ingestion is very unlikely. Do not induce vomiting, rinse mouth with water. Seek medical attention immediately and present this safety data sheet. Danger of vomiting!

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

If inhaled

Inhalation of the aerosol may cause headaches, fatigue, drowsiness.

If on skin

Frequent or prolonged skin contact causes dryness or cracking of the skin to dermatitis.

If in eyes

not available

If swallowed

The penetration of the liquid fraction into the respiratory tract upon ingestion or aspiration of the vomiting following emesis may result in bronchopneumonia or pneumonia.

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

Immediate medical attention is not required during normal use of the mixture. Required only if symptoms reach a certain level, as indicated in paragraphs 4.1 and 4.2; is symptomatic.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Multipurpose powders, CO₂, foam, water mist, sand.

Unsuitable extinguishing media

Full stream of water. Crushed water can be used to cool the containers near the fire.

5.2. Special hazards arising from the substance or mixture

Extremely flammable aerosol. Incomplete combustion or thermal decomposition can produce toxic gases (CO_x, hydrocarbons, dense smoke, etc.). Do not breathe decomposition products. Vapors are heavier than air and may accumulate in lower positions and may spread over long distances. When mixed with air, they may form an explosive mixture. Risk of re-ignition. There is a risk of the pressure vessel exploding at higher temperatures.

5.3. Advice for firefighters

Isolation breathing apparatus and non-flammable intervention suit. Use non-sparking tools. Cool containers exposed to fire with water spray or foam. Burning residues and post-intervention water should be disposed of as hazardous waste.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Prevent unauthorized entry, ensure free escape. Ensure adequate ventilation, do not breathe aerosol. Eliminate possible sources of ignition, do not smoke, do not handle open flame, do not expose to direct sunlight. Use non-sparking tools, avoid electrostatic charge. Avoid contact with skin and eyes - use personal protective equipment.

6.2. Environmental precautions

Provide a spill area, prevent leakage into drains, soil, surface and ground water. In case of a large liquid leak, monitor the NPK concentrations resp. TLV and inform the relevant public authorities and the flow or sewerage manager.

6.3. Methods and material for containment and cleaning up

Stop the leak. In case of large leakage of liquid fraction, drain the mixture. The aerosol evaporates, ensure adequate ventilation. In case of a minor leakage of the liquid fraction, cover with a non-flammable sorbent (sand, diatomaceous earth, soil, universal sorbent, etc.), store the used sorbent in a closable waste container, mark it and dispose of it as hazardous waste. Wash contaminated area with water.

6.4. Reference to other sections

See the Section 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Ensure adequate ventilation of the work area. Avoid contact with open flames and other sources of ignition. Protect against direct sunlight. Use non-sparking tools. Take precautionary measures against static discharge. Avoid the formation of gases and vapors in flammable or explosive concentrations and concentrations exceeding the maximum permissible concentrations (NPK-P) for the working atmosphere. Protect eyes and skin, do not breathe aerosol or fumes, use personal protective equipment according to section 8. Observe valid legal regulations on safety and health protection. Follow the principles of hygiene when working with chemicals, do not eat, drink or smoke while working. Wash hands with warm soap and water before breaks, meals and after work.

7.2. Conditions for safe storage, including any incompatibilities

Store in original containers at temperatures up to 50 ° C in dry, well-ventilated areas. Store away from heat, protect from direct sunlight and external weather conditions. Store away from food, drink and animal feeding stuffs. Store separately as flammable. No smoking. Observe the general regulations for storage of pressure vessels. Follow the instructions on the label.

| Content | Packaging type | Material of package |
|---------|----------------|---------------------|
| 400 ml | aerosol can | FE |

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Storage class 2B - Aerosols
 Storage temperature max. 50 °C

7.3. Specific end use(s)
 It is not.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Ensure compliance with governmental regulation 361/2007 Coll., Laying down the conditions for the protection of health at work, as amended, and to fulfill the obligations contained therein.

Czech Republic

Government Regulation 330/2023 Coll.

| Substance name (component) | Type | Value |
|---|-------|------------------------|
| Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics | PEL | 400 mg/m ³ |
| | NPK-P | 1000 mg/m ³ |
| pentane (CAS: 109-66-0) | PEL | 3000 mg/m ³ |
| | PEL | 1000 ppm |
| | NPK-P | 4500 mg/m ³ |
| | NPK-P | 1500 ppm |

European Union

Commission Directive 2006/15/EC

| Substance name (component) | Type | Value |
|----------------------------|-------------|------------------------|
| pentane (CAS: 109-66-0) | OEL 8 hours | 3000 mg/m ³ |
| | OEL 8 hours | 1000 ppm |

DNEL

| pentane | | | | | |
|---------------------|-------------------|------------------------|--------------------------|---------------------|--------|
| Workers / consumers | Route of exposure | Value | Effect | Value determination | Source |
| Workers | Inhalation | 3000 mg/m ³ | Chronic effects systemic | | |
| Workers | Dermal | 432 mg/kg/24h | Chronic effects systemic | | |

PNEC

| pentane | | | |
|------------------------------------|------------|---------------------|--------|
| Route of exposure | Value | Value determination | Source |
| Freshwater environment | 230 µg/l | | |
| Microorganisms in sewage treatment | 3600 µg/l | | |
| Marine water | 230 µg/l | | |
| Soil (agricultural) | 0.55 mg/kg | | |
| Freshwater sediment | 1.2 mg/kg | | |
| Sea sediments | 1.2 mg/kg | | |

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8.2. Exposure controls

Ensure sufficient ventilation or extraction of the work area. In case of exceeding the NPK-P, use suitable respiratory protection. Avoid contact with skin and eyes, do not inhale aerosols, gases and vapors. Observe hygienic measures when working with chemicals. Do not eat, drink and smoke during work. Wash hands with lukewarm soap and water before breaks, meals and after work. Adapt personal protective equipment to the nature of the work.

Eye/face protection

Not needed. Wear safety glasses if there is a risk of eye contact.

Skin protection

Work clothes. Take off contaminated clothing and wash before reuse. In case of long-term or repeated exposure, use protective gloves (material eg nitrile, 0.4 mm; viton, 0.7 mm, penetration time > 480 min.), Or other according to the performed test. When choosing, follow the manufacturer's recommendations, the material must be impermeable and resistant to the components of the mixture. Replace damaged gloves.

Respiratory protection

In case of insufficient ventilation, for short or low exposure use a mask with a filter against organic vapors and aerosols. Wear self-contained breathing apparatus in case of exceeding the limits or under heavy load.

Thermal hazard

Exposure to elevated temperatures may result in tearing of the aerosol container when overheating.

Environmental exposure controls

It is not necessary if handling conditions are observed. Observe normal environmental precautions, do not allow to enter drains, soil or water sources.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|--|------------------------------------|
| Physical state | liquid |
| Colour | Translucent |
| Odour | characteristic |
| Melting point/freezing point | data not available |
| Boiling point or initial boiling point and boiling range | data not available |
| Flammability | Flammable Class I. |
| Lower and upper explosion limit | |
| bottom | 0.6 % |
| upper | 8 % |
| Flash point | data not available |
| Auto-ignition temperature | 240 °C |
| Decomposition temperature | data not available |
| pH | data not available |
| Kinematic viscosity | data not available |
| Solubility in water | very slightly soluble to insoluble |
| Partition coefficient n-octanol/water (log value) | data not available |
| Vapour pressure | 573 hPa at 20 °C |
| Density and/or relative density | data not available |
| Relative vapour density | data not available |
| Particle characteristics | data not available |

9.2. Other information

Density (at 20 °C): 710 kg/m³
Soluble in common organic solvents.
The mixture is not explosive, there is a risk of explosion in a mixture of vapors and air.
Ignition temperature: > 200 °C
Solids content: 0.4%
VOC content: 70% (= 498.1 g/l)

SECTION 10: Stability and reactivity

10.1. Reactivity

Data not available.

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10.2. Chemical stability

The mixture is stable under normal environmental conditions, storage and handling.

10.3. Possibility of hazardous reactions

Risk of pressure vessel explosion when exposed to elevated temperatures.

10.4. Conditions to avoid

Temperatures above 50 ° C, contact with open flames, possible sources of ignition and hot surfaces, sparks, direct sunlight, accumulation of static electricity. Avoid formation of explosive concentrations. Vapors are heavier than air and may accumulate in lower positions and may spread over long distances. When mixed with air, they may form an explosive mixture. Risk of re-ignition. There is a risk of the aerosol can exploding at higher temperatures.

10.5. Incompatible materials

Flammable materials, strong oxidizing agents, strong acids and alkalis.

10.6. Hazardous decomposition products

Under normal conditions, the mixture does not decompose. Imperfect combustion or thermal decomposition produces toxic combustion products: COx, heavy smoke, hydrocarbons, etc.

SECTION 11: Toxicological information

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

The mixture meets the criteria for classification according to EC Regulation No. 1272/2008. The mixture is classified as dangerous in the sense of EC Regulation No. 1272/2008, as amended.

Acute toxicity

The mixture is not classified as acutely toxic by any way of exposure.

| butane | | | | | |
|-------------------|------------------|----------|---------------|-------------------------|-----|
| Route of exposure | Parameter | Value | Exposure time | Species | Sex |
| Inhalation | LC ₅₀ | 658 mg/l | 4 hours | Rat (Rattus norvegicus) | |

| Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics | | | | | |
|---|------------------|-------------|---------------|---------|-----|
| Route of exposure | Parameter | Value | Exposure time | Species | Sex |
| Oral | LD ₅₀ | >5000 mg/kg | | Rat | |
| Inhalation | LC ₅₀ | >12 mg/l | 6 hours | Rat | |
| Dermal | LD ₅₀ | >3160 mg/kg | | Rabbit | |

| isobutane | | | | | |
|-------------------|------------------|----------|---------------|-------------------------|-----|
| Route of exposure | Parameter | Value | Exposure time | Species | Sex |
| Inhalation | LC ₅₀ | 658 mg/l | 4 hours | Rat (Rattus norvegicus) | |

| pentane | | | | | |
|-------------------|------------------|------------------------|---------------|---------|-----|
| Route of exposure | Parameter | Value | Exposure time | Species | Sex |
| Oral | LD ₅₀ | 16000 mg/kg | | Rat | |
| Inhalation | LD ₅₀ | >100 mg/m ³ | 4 hours | Rat | |
| Dermal | LD ₅₀ | 3000 mg/kg | | Rabbit | |

| propane | | | | | |
|-------------------|------------------|----------|---------------|-------------------------|-----|
| Route of exposure | Parameter | Value | Exposure time | Species | Sex |
| Inhalation | LC ₅₀ | 658 mg/l | 4 hours | Rat (Rattus norvegicus) | |

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Skin corrosion/irritation

Based on available data the classification criteria are not met.

Serious eye damage/irritation

Based on available data the classification criteria are not met.

Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

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.

Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

Aspiration hazard

The mixture is placed on the market in an aerosol package, the classification criteria are not met.

11.2. Information on other hazards

Inhalation of the aerosol may cause headaches, fatigue, drowsiness. Frequent or prolonged skin contact causes dryness or cracking of the skin to dermatitis. The penetration of the liquid fraction into the respiratory tract upon ingestion or aspiration of the vomiting following emesis may result in bronchopneumonia or pneumonia.

SECTION 12: Ecological information

12.1. Toxicity

The ecotoxic effects of the mixture were not assessed. Observe the usual environmental precautions.

Acute toxicity

| pentane | | | | |
|------------------|-----------|---------------|--------------------------------|-------------|
| Parameter | Value | Exposure time | Species | Environment |
| EC ₅₀ | 9.74 mg/l | 48 hours | Invertebrates (Daphnia magna) | |
| LC ₅₀ | 11.9 mg/l | 24 hours | Invertebrates (Artemia salina) | |
| EC ₅₀ | 1 mg/l | 8 hours | Algae | |

12.2. Persistence and degradability

Data not available.

12.3. Bioaccumulative potential

Not determined, bioaccumulation is unlikely.

12.4. Mobility in soil

Data not available.

12.5. Results of PBT and vPvB assessment

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The mixture does not contain substances from the PBT and vPvB groups according to Annex XIII of the REACH Regulation, as amended.

12.6. Endocrine disrupting properties

Substances with these properties in accordance with the criteria set out in Commission Regulation (EU) 2017/2100 or (EU) 2018/605 are not included.

12.7. Other adverse effects

Water hazard class 2 (self-assessment): hazardous for water. The mixture is dangerous for the environment, even if small quantities can contaminate drinking water sources. Do not get into the ground, underground or surface water or sewers. Observe the usual precautions to protect the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of as hazardous waste. Dispose of at an authorized person or to a hazardous waste collection yard. Dispose of mixture and packaging residues in accordance with local waste disposal regulations. Dispose of contaminated packaging as hazardous waste.

Waste management legislation

Act No. 477/2001 Coll., On Packaging, as amended. Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended.

Waste type code

20 01 13* Solvents

Packaging waste type code

15 01 11* metallic packaging containing a hazardous solid porous matrix (for example asbestos), including empty pressure containers

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 or ID number

UN 1950

14.2. UN proper shipping name

AEROSOLS

14.3. Transport hazard class(es)

2 Gases

14.4. Packing group

not relevant

14.5. Environmental hazards

No.

14.6. Special precautions for user

Transport in packages that match the properties of the mixture. Observe the prescribed marking for cargo.

14.7. Maritime transport in bulk according to IMO instruments

Can not be used.

Additional information

Hazard identification No.

UN number

Classification code

Safety signs



5F

2.1



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Road transport - ADR

| | |
|---------------------|--------------------|
| Special provisions | 190, 327, 344, 625 |
| Limited quantities | 1 L |
| Excepted quantities | E0 |

Packaging

| | |
|----------------------------|---------------|
| Packing instructions | P207, LP200 |
| Special packing provisions | PP87, RR6, L2 |
| Mixed packing provisions | MP9 |
| Transport category | 2 |
| Tunnel restriction code | (D) |

Special provision for

| | |
|---|-----------------|
| packages | V14 |
| loading, unloading and handling operation | CV9, CV12 S2 |

Railway transport - RID

| | |
|---------------------|--------------------|
| Special provisions | 190, 327, 344, 625 |
| Excepted quantities | E0 |

Packaging

| | |
|----------------------------|---------------|
| Packing instructions | P207, LP200 |
| Special packing provisions | PP87, RR6, L2 |
| Mixed packing provisions | MP9 |
| Transport category | 0 |

Special provision for

| | |
|---------------------------------|-----------|
| packages | W14 |
| loading, unloading and handling | CW9, CW12 |

Air transport - ICAO/IATA

| | |
|---|------|
| Packaging instructions for limited amount | Y203 |
| Packaging instructions passenger | 203 |
| Cargo packaging instructions | 203 |

Marine transport - IMDG

| | |
|----------------------|----------|
| EmS (emergency plan) | F-D, S-U |
| MFAG | 620 |

SECTION 15: Regulatory information

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

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. COMMISSION REGULATION (EU) 2020/878 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH). Commission Delegated Regulation (EU) 2021/849 of 11 March 2021 amending, for the purposes of adapting to technical and scientific progress, Part 3 of Annex VI to Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labeling and packaging of substances and mixtures. REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents, as ammended. Commission Regulation (EU) No 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals.

National regulations (Germany)

WGK Water hazard class: WGK 2 - obviously hazardous to water

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15.2. Chemical safety assessment

No chemical hazard assessment was performed for this mixture.

More information

This information only indicates the basic regulations listed in this Safety Data Sheet. Please note the possible existence of additional regulations supplementing these Regulations. We refer to all applicable national, international and local regulations and regulations.

SECTION 16: Other information

A list of standard risk phrases used in the safety data sheet

| | |
|------|---|
| H220 | Extremely flammable gas. |
| H222 | Extremely flammable aerosol. |
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H229 | Pressurised container: May burst if heated. |

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| H304 | May be fatal if swallowed and enters airways. |
| H336 | May cause drowsiness or dizziness. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |

Guidelines for safe handling used in the safety data sheet

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| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P211 | Do not spray on an open flame or other ignition source. |
| P251 | Do not pierce or burn, even after use. |
| P260 | Do not breathe spray. |
| P410+P412 | Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. |

A list of additional standard phrases used in the safety data sheet

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| EUH066 | Repeated exposure may cause skin dryness or cracking. |
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Other important information about human health protection

The mixture should not be used for any purpose other than that for which it is intended (see point 1.2). Because the supplier can not control the specific conditions of use of the mixture, it is the responsibility of the user to adapt the prescribed warnings to local laws and regulations. Safety information describes the product in terms of safety and can not be considered as technical product information.

Key to abbreviations and acronyms used in the safety data sheet

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|------------------|---|
| 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 |
| 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 |
| EuPCS | European Product Categorisation System |
| IATA | International Air Transport Association |
| IBC | International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals |
| ICAO | International Civil Aviation Organization |
| IMDG | International Maritime Dangerous Goods |
| IMO | International Maritime Organization |
| INCI | International Nomenclature of Cosmetic Ingredients |
| ISO | International Organization for Standardization |

The safety data sheet complies with Commission Regulation (EU) 878/2020 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) .

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|---------------|--------------------|---------|----|
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|------------------------|---|
| 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 |
| log Kow | Octanol-water partition coefficient |
| NPK | Maximum admissible concentration |
| OEL | Occupational Exposure Limits |
| PBT | Persistent, Bioaccumulative and Toxic |
| PEL | Permissible Exposure Limit |
| ppm | Parts per million |
| Press. Gas (Comp.) | Gas under pressure: compressed gas |
| Press. Gas (Diss.) | Gas under pressure: dissolved gas |
| Press. Gas (Liq.) | Gas under pressure: liquefied gas |
| Press. Gas (Ref. Liq.) | Gas under pressure: refrigerated liquefied gas |
| 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 |
| Aerosol | Aerosol |
| Aquatic Chronic | Hazardous to the aquatic environment (chronic) |
| Asp. Tox. | Aspiration hazard |
| Flam. Gas | Flammable gas |
| Flam. Liq. | Flammable liquid |
| Press. Gas | Gases under pressure |
| STOT SE | Specific target organ toxicity - single exposure |

Training guidelines

According to § 103 and § 104 of Act No. 262/2006 Coll., The Labor Code, as amended. 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

The mixture should not be used for any purpose other than that for which it is intended (see point 1.2). Because the specific conditions of use of the substance are beyond the control of the supplier, it is the responsibility of the user to adapt the prescribed warnings to local laws and regulations. Safety information describes the product in terms of safety and can not be considered as technical product information.

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)

Adaptation of BL updated Annex II of the REACH Regulation as amended by Commission Regulation (EU) 2020/878.

Statement

The safety data sheet contains the data needed to ensure safety and health at work and environmental protection. These data correspond to the current state of knowledge and experience and are in accordance with applicable legal regulations. They can not be considered as a guarantee of the suitability and usability of the product for a specific application. The user is responsible for the treatment under existing laws and regulations.