

## NOVAPĚN

Creation date	03. August 2018	Revision no.	
Revision date		Version	1.0

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

- 1.1. Product identifier**  
Substance / mixture NOVAPĚN  
mixture
- 1.2. Relevant identified uses of the substance or mixture and uses advised against mixture's intended use**  
Foam cleaner.

#### The use descriptors

PW Widespread use by professional workers

Disapproved uses of mixture not available

### 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 (ID) 62910370  
VAT Reg No CZ62910370  
Phone +420 233 339 688  
E-mail petr.johanides@novato.cz  
Web address www.novato.cz

#### Manufacturer

Name or trade name NOVATO  
Address Uralská 770/6, Praha, 160 00  
Czech Republic  
Identification number (ID) 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

National Health Service (NHS) 111  
National poisoning information centre Scotland, NHS 24: 111  
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. Substance or mixture classification

##### Classification of the mixture in accordance with Regulation (EC) No 1272/2008

The mixture is classified as dangerous.

Aerosol 1, H222, H229  
Eye Irrit. 2, H319  
STOT SE 3, H336

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

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### Most serious adverse physico-chemical effects

The mixture is extremely flammable. Container under pressure: Do not expose to sunlight and temperatures above 50 ° C. Do not pierce or empty the empty container. Do not spray into naked flames or hot items. Keep away from sources of ignition - No smoking. Keep out of the reach of children. Incomplete combustion may generate hazardous gases.

### Most serious adverse effects on human health and the environment

Inhalation of the aerosol may cause headaches, fatigue, drowsiness, malaise to narcotic conditions, exceptional irritation of mucous membranes and respiratory tract. Do not inhale aerosol. Irritating to eyes (tearing, burning, itching, redness, conjunctivitis). Long-term or repeated exposure may cause skin dryness. Follow the instructions in the operating instructions. The mixture is not classified as dangerous for the environment. Follow the instructions for use to avoid risks to humans and the environment. Avoid leakage into the soil, underground or surface water or sewers. The full wording of the classification and the H sentences is given in the section. 16 of this Safety Data Sheet.

## 2.2. Label elements

### Hazard pictogram



### Signal word

Danger

### Hazardous substances

Propan-2-ol (Isopropanol)

### Hazard statements

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

### 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.
P261	Avoid breathing mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C.
P501	Dispose of contents/container to in accordance with local/regional/national/international regulations.

## 2.3. Other hazards

The mixture or its components are not classified as PBT or vPvB nor are they listed on the candidate list for Annex XIV of the REACH Regulation as of the date of preparation of the SDS.

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### 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.
Index: 603-117-00-0 CAS: 67-63-0 EC: 200-661-7	Propan-2-ol (Isopropanol)	12,5-20	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	
Index: 601-003-00-5 CAS: 74-98-6 EC: 200-827-9	Propane	2,5-5	Press. Gas, Flam. Gas 1, H220	
Index: 601-004-00-0 CAS: 106-97-8 EC: 203-448-7	Butane	2,5-5	Press. Gas, Flam. Gas 1, H220	
Index: 601-004-00-0 CAS: 75-28-5 EC: 200-857-2	Isobutane	2,5-5	Press. Gas, Flam. Gas 1, H220	
Index: 603-064-00-3 CAS: 107-98-2 EC: 203-539-1	1-Methoxypropan-2-ol	1-2,5	Flam. Liq. 3, H226 STOT SE 3, H336	
Index: 007-001-01-2 CAS: 1336-21-6 EC: 215-647-6	Ammonia 25%	0,1-1	Skin Corr. 1B, H314 Aquatic Acute 1, H400	

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 symptoms of health or if in doubt, seek medical advice and provide information from this safety data sheet. Rinse the skin with water and cover with a sterile dressing. In the case of life-threatening conditions, resuscitate. Ensure warmth and tranquility. Keep the unconscious person in a stabilized position and do not give anything by mouth. Avoid cool. Do not induce vomiting. For spontaneous vomiting, avoid swallowing of vomit. If burning occurs, cool the burn with cold water and cover with a clean cloth.

##### Inhalation

If inhaled, stop exposure, flush the oral cavity with water, breathe fresh air. If respiratory tract irritation develops, seek medical attention. If necessary (breathing or irregular breathing), perform artificial respiration.

##### Skin contact

Wash all affected parts with water with soap, treat with regeneration cream. In case of garment contamination, remove the garment. If symptoms of irritation develop, seek medical attention.

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### Eye contact

Rinse eyes and their surroundings. If the affected contact lenses are removed, remove them. Rinse out the eyes from the inner corner of the eye towards the outside of a large amount of clean, lukewarm water, especially the area under the lids. Rinse for at least 15 minutes and seek medical attention. In the flushing, continue during transport to the doctor.

### Ingestion

Do not induce vomiting, rinse your mouth with water, drink a glass of water (only if it is conscious and has no cramps). Immediately seek medical advice and present this Safety Data Sheet.

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

### Inhalation

Inhalation of the aerosol may cause headaches, fatigue, drowsiness, malaise to narcotic conditions, exceptional irritation of mucous membranes and respiratory tract. Do not inhale aerosol.

### Skin contact

Long-term or repeated exposure may cause skin dryness.

### Eye contact

May cause severe irritation to eye damage (redness, burning in the eyes, tearing, inflammation, corneal damage).

### Ingestion

not available

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

In the normal use of the compound, immediate medical assistance is not required. It is required only if the symptoms of a certain degree are attained, as described in paragraphs 4.1 to 4.2; is symptomatic.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Multipurpose powders, CO<sub>2</sub>, foam, water mist, sand.

#### Unsuitable extinguishing media

Water - full jet.

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

Extremely flammable mixture. Incomplete combustion may result in hazardous gases (CO<sub>x</sub>, NO<sub>x</sub>, hydrocarbons, etc.). Do not breathe fumes. At elevated temperatures, the container may be overpressured and burst. Vapors are heavier than air, accumulate in lower positions. When mixed with air, an explosive mixture may form. There is a risk of re-ignition.

### 5.3. Advice for firefighters

Isolation breathing apparatus and non-flammable intervention suit. Use non-sparking tools. 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

Avoid entry of unauthorized persons, ensure escape area. Remove sources of heat and ignition, do not smoke, do not expose to direct sunlight. Use non-sparking tools, avoid electrostatic charge. Ensure adequate ventilation of the work area. Avoid breathing vapors. Avoid contact with skin and eyes - use personal protective equipment.

### 6.2. Environmental precautions

Ensure escape area, do not allow to enter into sewers, soil, surface and ground water. In the event of a large leak, monitor NPK concentrations or concentrations. TLV and inform the appropriate governmental authorities and the flow or sewerage manager.

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

Aerosol vaporizes, ensure adequate ventilation. Avoid leakage of the liquid fraction, cover with non-combustible sorbent (sand, kieselguhr, earth, vermiculite, etc.). Store the used sorbent in a sealing waste container and dispose of as hazardous waste. Wash the contaminated area with water.

### 6.4. Reference to other sections

For recommended personal protective equipment, see Section 8. Dispose of unused product according to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Ensure adequate ventilation of the work area. Avoid generation of gases and vapors in flammable or explosive concentrations and concentrations exceeding the maximum allowable concentrations (NPK-P) for working atmosphere. Avoid contact with open fire and other sources of ignition. Protect from direct sunlight. Use non-sparking tools. Take precautionary measures against static discharges. Protect eyes and skin, do not breathe aerosol, use personal protective equipment according to section 8. Observe the applicable health and safety legislation. Observe the principles of hygiene with chemicals, do not eat, drink, smoke. Wash hands with warm soapy water before breaks, eating 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 sources of heat, protect from direct sunlight, do not smoke. Store away from food, drink and animal feed. Store separately as flammable. Observe general regulations on the storage of pressure containers. Follow the instructions on the label.

Storage class

2B - Aerosols

Content

600 ml

Packaging type

Aerosolová dóza

Material of package

FE (40), Steel (Metals)



FE

do 50 °C

Storage temperature

### 7.3. Specific end use(s)

not available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

none

### 8.2. Exposure controls

Ensure adequate ventilation or extraction of the work area. If NPK-P is exceeded, use adequate respiratory protection. Avoid contact with skin and eyes, do not inhale aerosol. Observe hygiene measures for handling chemicals. Do not eat, drink or smoke while working. Wash hands with lukewarm water and soap before breaks, food, and after work. Adapt personal protective equipment to the nature of the work.

#### Eye/face protection

Protective goggles.

#### Skin protection

Protective work clothing. Wash the affected skin, remove the stained clothing, wash before using it. Protective gloves - When selecting the manufacturer's recommendations, the material must be impermeable and resistant to the components of the mixture. Tested in a specific workplace before first use. Replace damaged gloves.

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### Respiratory protection

If the limit values are exceeded, in the case of an increased risk of inhalation and inadequate ventilation, use a mask with an organic vapor / aerosol filter type A. In case of accident or prolonged exposure, use an insulating respirator.

### Thermal hazard

Avoid exposure to temperatures above 50 °C.

### Environmental exposure controls

Observe the usual environmental precautions. Avoid leakage into sewers, underground and surface water and soil.

### More information

Ensure adequate ventilation or extraction of the work area. Avoid contact with eyes and skin. Observe hygiene measures for handling chemicals. Do not eat, drink or smoke while working. Wash hands with lukewarm water and soap before breaks, food and work. Adapt personal protective equipment to the nature of the work.

## SECTION 9: Physical and chemical properties

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

Appearance	spray
Physical state	liquid at 20°C
color	colourless
Odour	characteristic
Odour threshold	data not available
pH	10 (undiluted)
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)	Flammable Class I.
Upper/lower flammability or explosive limits	
flammability limits	
bottom	2 %
upper	12 %
explosive limits	
bottom	2 %
upper	12 %
Vapour pressure	3500 hPa at 20 °C
Vapour density	data not available
Relative density	894 kg/m <sup>3</sup> at 20 °C
Solubility(ies)	
solubility in water	soluble
solubility in fats	data not available
Partition coefficient: n-octanol/water	data not available
Auto-ignition temperature	425 °C
Decomposition temperature	data not available
Viscosity	data not available
Explosive properties	data not available
Oxidising properties	data not available

### 9.2. Other information

Density	data not available
ignition temperature	data not available
content of organic solvents (VOC)	< 39%

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Vapors are heavier than air, accumulate primarily in the floor, where they may form explosive mixtures with the air.

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

When used in the standard way, there is not any dangerous reaction with other substances.

#### 10.2. Chemical stability

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

#### 10.3. Possibility of hazardous reactions

When exposed to high temperatures, there is a risk of explosion of a pressure vessel. Danger of violent reaction in contact with strong acid or oxidizing agents. Vapors may form explosive mixtures with air.

#### 10.4. Conditions to avoid

Temperatures above 50 °C, contact with open fire, possible sources of ignition and hot surfaces, sparks, static electricity. Avoid formation of concentrations within the limits of explosivity.

#### 10.5. Incompatible materials

Flammable materials, strong oxidizing agents, strong acids.

#### 10.6. Hazardous decomposition products

Under normal conditions, the mixture is not decomposed. Incomplete combustion or thermal decomposition produces toxic products of combustion (COx, NOx, hydrocarbons, etc.).

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Inhalation of the aerosol may cause headaches, fatigue, drowsiness, malaise to narcotic conditions, exceptional irritation of mucous membranes and respiratory tract. Do not inhale aerosol. Irritating to eyes (tearing, burning, itching, redness, conjunctivitis). Long-term or repeated exposure may cause skin dryness.

#### Acute toxicity

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

##### 1-Methoxypropan-2-ol

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Oral	LD50	4277 mg/kg		Rat (Rattus norvegicus)	
Dermal	LD50	>2000 mg/kg		Rabbit	
Inhalation	LC50	>7000 ppm	6 hour	Rabbit	

##### Butane

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Inhalation	LC50	658 mg/l	4 hour	Rat (Rattus norvegicus)	

##### Isobutane

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Inhalation	LC50	658 mg/kg	4 hour	Rat (Rattus norvegicus)	

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### Propan-2-ol (Isopropanol)

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Oral	LD50	5480 mg/kg		Rat (Rattus norvegicus)	
Inhalation	LD50	72.6 mg/l	4 hour	Rat (Rattus norvegicus)	
Dermal	LD50	12800 mg/kg		Rabbit	

### Propane

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Inhalation	LC50	658 mg/l	4 hour	Rat (Rattus norvegicus)	

#### Skin corrosion/irritation

Based on available data the classification criteria are not met. Prolonged or repeated contact with the product causes skin degreasing and drying.

#### Serious eye damage/irritation

Mixture is classified as eye irritant, category 2.

#### 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

Mixture is classified as toxic for specific target organs after single exposure, category 3. Inhalation of vapors or aerosol may cause headache, drowsiness or dizziness, malaise to narcotic states.

#### Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

#### 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

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

#### 1-Methoxypropan-2-ol

Parameter	Value	Time of exposure	Species	Environment
LC50	20800 mg/l	96 hour	Fishes (Pimephales promelas)	
EC50	<1412 mg/l	48 hour	Invertebrates (Daphnia magna)	
EC50	>1000 mg/l	7 day	Algae (Pseudokirchneriella subcapitata)	

#### Propan-2-ol (Isopropanol)

Parameter	Value	Time of exposure	Species	Environment
LC50	8970-9280 mg/l	48 hour	Fishes (Leuciscus idus)	
LC50	4200 mg/l	96 hour	Fishes	
LC50	903 mg/l	96 hour	Invertebrates	
EC50	>10 g/l	48 hour	Invertebrates (Daphnia magna)	

Avoid release to the environment.

### 12.2. Persistence and degradability

The mixture is biodegradable.

### 12.3. Bioaccumulative potential

Not determined, bioaccumulation is unlikely.

### 12.4. Mobility in soil

The product is soluble and mobile in water and soil.

### 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

Avoid leakage into sewers, soil and underground or surface water. Observe the usual environmental precautions.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Appropriate methods of disposal of the mixture: Dispose of as hazardous waste, dispose of it to the authorized person or to the hazardous waste collection yard. Dispose of residues of the mixture and the packaging in accordance with local waste disposal regulations. Suitable methods for disposal of contaminated packaging: Dispose of as hazardous waste according to local regulations. Uncontaminated packaging can be recycled.

#### Legislation of waste

Council Directive 75/442/EEC on waste, as amended. Act No. 477/2001 Coll., On Packaging, as amended.

#### Waste type code

14 06 03 other solvents and solvent mixtures  
20 01 13 solvents

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### Packaging waste type code

- 15 01 11 metallic packaging containing a dangerous solid porous matrix (for example asbestos), including empty pressure containers
- 15 01 10 packaging containing residues of or contaminated by dangerous substances

## SECTION 14: Transport information

### 14.1. UN number

UN 1950

### 14.2. UN proper shipping name

AEROSOLS

### 14.3. Transport hazard class(es)

2 Gases

### 14.4. Packing group

not available

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

Can not be used.

### Additional information

Hazard identification No.	 (Kemler Code)
UN number	1950
Classification code	5F
Safety signs	2.1



### Road transport ADR

Limited amount	1 L
Extracted amounts	E0
Transport category	2
Tunnel restriction code	(D)

### 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
Marine pollution	No

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### SECTION 15: Regulatory information

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

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. 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. 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. Government Decree No. 194/2001 Coll., Laying down technical requirements for aerosol dispensers, as amended by Government Order No. 305/2006 Coll. and Government Order No. 315/2009 Coll. Council Directive 75/324/EEC on the approximation of the laws of the Member States relating to aerosol dispensers, as amended by Commission Directive 94/1/EC, Council Regulation (EC) No 807/2003, Commission Directive 2008/47/(EC) No 219/2009, Commission Directive 2013/10/ EU, as amended. REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents, as amended. The Act No. 350/2011 Coll., on Chemical Substances and Chemical Preparations as amended (the Chemical Act). The Act No. 350/2011 Coll., on Chemical Substances and Chemical Preparations as amended. Labor Code No. 262/2006, as amended. The Act No. 258/2000 Coll., on Protection of Public Health as amended. Decree laying down the hygienic limits of chemical, physical and biological indicators for indoor living rooms of some buildings No. 6/2003 Coll. Government Regulation laying down the conditions for the protection of health at work No. 9/2013 Coll. as amended. The Act No. 201/2012 Coll., on the Protection of Atmosphere – Clean Air Act as amended. Decree No. 415/2012 Coll., on the permissible level of pollution and its determination and implementation of certain other provisions of the Air Protection Act as amended. The Act No. 185/2001 Coll., on Waste and the Amendment of Some Other Acts as amended. Act No. 477/2001 Coll., On Packaging, as amended. Water Act No. 150/2010 Coll., Amending Act No. 254/2001 Coll., On Water and on Amendments to Certain Acts (Water Act), as amended, and Act No. 200/1990 Coll., On offenses, as amended. Act No. 133/1985 Coll., As amended. Fire Prevention Regulation.

#### 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.
H314	Causes severe skin burns and eye damage.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.

#### Guidelines for safe handling used in the safety data sheet

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
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P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P261	Avoid breathing mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C.
P501	Dispose of contents/container to in accordance with local/regional/national/international regulations.

### Other important information about human health protection

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

### 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
EC50	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
IC50	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
LC50	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD50	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

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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	Flammable aerosol
Aquatic Acute	Hazardous to the aquatic environment
Eye Irrit.	Eye irritation
Flam. Gas	Flammable gas
Flam. Liq.	Flammable liquid
Skin Corr.	Skin corrosion
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.

### Recommended restrictions of use

not available

### Information about data sources used to compile the Safety Data Sheet

Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

### More information

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.

### 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.