

**MEGA OLEJ**

Creation date 11. February 2019  
Revision date Version 1.0

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

- 1.1. Product identifier** MEGA OLEJ  
Substance / mixture mixture
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**  
mixture's intended use Special lubricant

**The use descriptors**

IS Use at industrial sites

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

**Distributor**

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**

National Health Service (NHS) 111  
National poisoning information centre Scotland, NHS 24: 111

**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  
Skin Irrit. 2, H315  
Eye Irrit. 2, H319

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**

The mixture irritates the eyes (tearing, burning, itching until conjunctivitis) and skin (redness, itching, burning). Frequent or prolonged contact with the skin causes the skin to dry or crack to dermatitis. Follow the instructions in the operating instructions. The mixture is not 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 level. Avoid leakage into the soil, underground or surface water or sewers. The full wording of the classification and H phrases is given in section 16 of this Safety Data Sheet.

**2.2. Label elements**

**Hazard pictogram**



**Signal word**

Danger

**Hazardous substances**

Propane  
Butane  
Isobutane

[A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C9 through C16 and boiling in the range of approximately 150 oC to 290 oC (302 oF to 554 oF) .]

**Hazard statements**

- H222 Extremely flammable aerosol.
- H229 Pressurised container: May burst if heated.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.

**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.
- 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 no expose to temperatures exceeding 50 °C/122 °F.

**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: 601-003-00-5 CAS: 74-98-6 EC: 200-827-9	Propane	15-25	Flam. Gas 1, H220 Press. Gas, H280	
Index: 601-004-00-0 CAS: 106-97-8 EC: 203-448-7	Butane	4-10	Flam. Gas 1, H220 Press. Gas, H280	
CAS: 106233-09-4 EC: 500-295-0	C16-18 ethoxylated alcohols, phosphates, mono- and diesters	≤2,5	Skin Corr. 1B, H314	
Index: 601-004-00-0 CAS: 75-28-5 EC: 200-857-2	Isobutane	≤2,5	Flam. Gas 1, H220 Press. Gas, H280	
Index: 649-422-00-2 CAS: 64742-47-8 EC: 265-149-8	[A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C9 through C16 and boiling in the range of approximately 150 oC to 290 oC (302 oF to 554 oF) .]	≤2,5	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Chronic 2, H411	

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

If you feel any health problems or if in doubt, seek medical advice and provide information from this Safety Data Sheet. In the case of life-threatening conditions, resuscitate. 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 inhalation of vomit.

##### 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.

##### Eye contact

If it has affected contact lenses, remove them if possible. Open wide eyes rinse out of the inner corner of the eye toward 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.

##### Ingestion

In the case of an aerosol product, ingestion is very unlikely. Do not induce vomiting, rinse your mouth with water. Immediately seek medical advice and present this Safety Data Sheet. Risk of inhalation of vomit.

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

not available

**Skin contact**

Irritating to the skin (redness, itching, burning). Frequent or prolonged contact with the skin causes the skin to dry or crack to dermatitis.

**Eye contact**

The mixture irritates the eyes (redness, tearing, burning, inflammation of conjunctivae).

**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**

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 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. Cover the product near the fire with spray water or cover with foam. Fire residues and water after treatment should be disposed of as hazardous waste.

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

Prevent entry of unauthorized persons, ensure leakage. Ensure adequate ventilation, avoid inhalation of aerosol. Remove possible sources of ignition, do not smoke, do not expose to direct sunlight. Use non-sparking tools, avoid electrostatic charge. Avoid contact with skin and eyes - use personal protective equipment. Risk of slipping on spray.

**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.

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

Ensure adequate ventilation. Avoid leakage of liquid, do not flush with water, cover with non-combustible sorbent (sand, diatomaceous earth, earth, etc.), store the used sorbent in a sealing waste container and dispose of as hazardous waste. Wash the contaminated area.

**6.4. Reference to other sections**

Recommended personal protective equipment according to section 8. Dispose of unused product according to section 13.

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### 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.

Content	300 ml
Packaging type	Aerosol canister
Material of package	FE (40), Steel (Metals)



FE  
max.50 °C

Storage temperature  
**7.3. Specific end use(s)**  
not available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Czech Republic

Substance name (component)	Type	Time of exposure	Value	Note	Source
Propane (CAS: 74-98-6)	PEL	8 hours	1000 mg/m <sup>3</sup>		EU limits
	NPK-P	15 minutes	1800 mg/m <sup>3</sup>		
Butane (CAS: 106-97-8)	PEL	8 hours	1000 mg/m <sup>3</sup>		EU limits
	NPK-P	15 minutes	2400 mg/m <sup>3</sup>		
Isobutane (CAS: 75-28-5)	PEL	8 hours	1000 mg/m <sup>3</sup>		EU limits
	NPK-P	15 minutes	2400 mg/m <sup>3</sup>		
[A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C9 through C16 and boiling in the range of approximately 150 oC to 290 oC (302 oF to 554 oF) .] (CAS: 64742-47-8)	PEL	8 hours	20 mg/m <sup>3</sup>		EU limits

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### Czech Republic

Substance name (component)	Type	Time of exposure	Value	Note	Source
[A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C9 through C16 and boiling in the range of approximately 150 oC to 290 oC (302 oF to 554 oF) .] (CAS: 64742-47-8)	NPK-P	15 minutes	140 mg/m <sup>3</sup>		EU limits

### 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

Closed safety glasses.

#### Skin protection

Protective workwear made of cotton or synthetic material resistant to high temperatures. Wash the affected skin, remove the stained clothing, wash before using it. Protective gloves (material eg: butyl / viton 0,6 mm, penetration time > 30 min.) - When selecting the manufacturer's recommendations, the material must be impermeable and resistant to the components of the mixture. Before testing for the first time, test at a specific workplace. Replace damaged gloves.

#### 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

not available

#### Environmental exposure controls

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

## SECTION 9: Physical and chemical properties

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

Appearance	spray
Physical state	liquid at 20°C
color	yellowish
Odour	characteristic
Odour threshold	data not available
pH	data not available
Melting point/freezing point	data not available
Initial boiling point and boiling range	175 °C
Flash point	<-80 °C (closed cup)
Evaporation rate	data not available
Flammability (solid, gas)	Flammable Class I.
Upper/lower flammability or explosive limits	
flammability limits	
bottom	0.5 %
upper	10.9 %

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explosive limits	
bottom	0.5 %
upper	10.9 %
Vapour pressure	~2100 hPa at 20 °C
Vapour density	data not available
Relative density	890 kg / m <sup>3</sup> at 20 °C
Solubility(ies)	
solubility in water	insoluble
solubility in fats	data not available
organic solvents	common organic solvents
Partition coefficient: n-octanol/water	data not available
Auto-ignition temperature	365 °C
Decomposition temperature	data not available
Viscosity	data not available
Explosive properties	data not available
Oxidising properties	data not available
<b>9.2. Other information</b>	
Density	data not available
ignition temperature	data not available
content of organic solvents (VOC)	47.84%
Solids content: > 2.5%	

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

The mixture is extremely flammable. 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

No dangerous reactions known. When exposed to high temperatures, there is a risk of explosion of a pressure vessel. Solvent 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

In normal conditions, the mixture is not decomposed. Thermal decomposition at high temperatures may produce hazardous decomposition products (COx).

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

No toxicological data is available for the mixture.

#### Acute toxicity

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

[A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C9 through C16 and boiling in the range of approximately 150 oC to 290 oC (302 oF to 554 oF) .]

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Oral	LD50	>5000 mg/kg		Rat	
Dermal	LD50	>2000 mg/kg		Rabbit	

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[A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C9 through C16 and boiling in the range of approximately 150 oC to 290 oC (302 oF to 554 oF) .]

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Inhalation	LC50	>5.28 mg/l	4 hour	Rat	

**Butane**

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

**C16-18 ethoxylated alcohols, phosphates, mono- and diesters**

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Oral	LD50	>10000 mg/kg		Rat	
Dermal	LD50	>2000 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**

The mixture is classified as irritating to skin, category 2. It irritates the skin. Prolonged or repeated contact with the product causes skin degreasing and drying.

**Serious eye damage/irritation**

Mixture is classified as eye irritant, category 2. Causes serious eye irritation.

**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**

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.

[A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C9 through C16 and boiling in the range of approximately 150 oC to 290 oC (302 oF to 554 oF) .]

Parameter	Value	Time of exposure	Species	Environment
LC50	25 mg/l	96 hour	Fishes (Oncorhynchus mykiss)	
EC50	1.4 mg/l	48 hour	Invertebrates (Daphnia magna)	

C16-18 ethoxylated alcohols, phosphates, mono- and diesters

Parameter	Value	Time of exposure	Species	Environment
LC50	8.15 mg/l	96 hour	Fishes (Pimephales promelas)	
EC50	>0.16 mg/l	24 hour	Invertebrates (Daphnia magna)	

**12.2. Persistence and degradability**

Data not available.

**12.3. Bioaccumulative potential**

Not determined, bioaccumulation is unlikely.

**12.4. Mobility in soil**

Unspecified - probably low mobile.

**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**

WGK = 1 (self-assessment): Weak water hazard. 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**

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 regulations on waste disposal. Suitable methods for disposal of contaminated packaging: Dispose of as hazardous waste according to local regulations.

**Waste management legislation**

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

**Waste type code**

07 06 04 other organic solvents, washing liquids and mother liquors

**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

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**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**

Always carry closed containers in upright position. Transport in packages that match the properties of the mixture. Observe the prescribed marking for cargo.

Hazard identification No.	<div style="border: 1px solid black; background-color: orange; padding: 2px; display: inline-block;">1950</div>	(Kemler Code)
UN number	5F	
Classification code	2.1	
Safety signs		



**Road transport - ADR**

Limited quantities	1 L
Transport category	2
Tunnel restriction code	(D)

**Railway transport - RID**

Excepted quantities	E0
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**Air transport - ICAO/IATA**

Packaging instructions for limited amount	Y203
Packaging instructions passenger	203
Cargo packaging instructions	363

**Marine transport - IMDG**

EmS (emergency plan)	F-D, S-U
Marine Pollutant	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. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended. 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). 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.
H226	Flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

**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.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
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/122 °F.

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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

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
NPK	Maximum admissible concentration
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
PEL	Permissible Exposure Limit
PNEC	Predicted no-effect concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bioaccumulative
Aerosol	Aerosol

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Aquatic Chronic	Hazardous to the aquatic environment
Asp. Tox.	Aspiration hazard
Eye Irrit.	Eye irritation
Flam. Gas	Flammable gas
Flam. Liq.	Flammable liquid
Press. Gas	Gases under pressure
Skin Corr.	Skin corrosion
Skin Irrit.	Skin irritation
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

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)

Updating the Safety Data Sheet in accordance with Commission Regulation (EU) No. 2015/830.

### 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.