

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) .

MKL

Creation date	04th November 2019	Version	2
Revision date	13th October 2021		

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

1.1. Product identifier

MKL

Substance / mixture

mixture

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

Mixture's intended use

Special dry antistatic lubricant; Designed for dusty environments where common oils and Vaseline cannot be used

The use descriptors

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

Eye Irrit. 2, H319

STOT SE 3, H336

Aquatic Chronic 3, H412

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. Do not inhale aerosol. Irritating to the skin (redness, itching, burning, drying). 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 classified as dangerous for 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. Empty the packaging with the remainder of the mixture as hazardous waste. The full wording of the classification and H phrases is given in 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.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
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.
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 according to applicable regulations.

Supplemental information

EUH066	Repeated exposure may cause skin dryness or cracking.
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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
Index: 603-019-00-8 CAS: 115-10-6 EC: 204-065-8 Registration number: 01-21194772128-37	dimethyl ether	25-50	Flam. Gas 1, H220 Press. Gas (compressed gas), H280	2, 3
Index: 603-117-00-0 CAS: 67-63-0 EC: 200-661-7 Registration number: 01-2119457558-25	propan-2-ol	12,5-20	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 Specific concentration limit: STOT SE 3, H336: C ≥ 20 % Eye Irrit. 2, H319: C ≥ 10 %	3

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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 Registration number: 01-2119486944-21	propane	12,5-20	Flam. Gas 1, H220 Press. Gas (compressed gas), H280	
Index: 607-022-00-5 CAS: 141-78-6 EC: 205-500-4 Registration number: 01-2119475103-46	ethyl acetate	5-10	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066 Specific concentration limit: Eye Irrit. 2, H319: C ≥ 10 % STOT SE 3, H336: C ≥ 20 %	3
Index: 601-004-00-0 CAS: 106-97-8 EC: 203-448-7 Registration number: 01-2119474691-32	butane	5-10	Flam. Gas 1, H220 Press. Gas (compressed gas), H280	
Index: 601-004-00-0 CAS: 75-28-5 EC: 200-857-2 Registration number: 01-2119485395-27	isobutane	5-10	Flam. Gas 1, H220 Press. Gas (compressed gas), H280	
Index: 601-006-00-1 CAS: 109-66-0 EC: 203-692-4 Registration number: 01-2119459286-30	pentane	5-10	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: 603-004-00-6 CAS: 71-36-3 EC: 200-751-6 Registration number: 01-2119484630-38	n-butanol	<2,5	Flam. Liq. 3, H226 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335, H336 Specific concentration limit: Eye Dam. 1, H318: C ≥ 3 % Eye Irrit. 2, H319: 1 % ≤ C < 3 %	3

Notes

- 1 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.
- 2 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).
- 3 A substance for which exposure limits are set.

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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.

If inhaled

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.

If on skin

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.

If in eyes

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.

If swallowed

In the case of an aerosol product, ingestion is very unlikely. Do not induce vomiting, rinse your mouth with water (only if the affected person is conscious). Seek medical advice and submit this Safety Data Sheet.

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

If inhaled

Inhalation of the aerosol can cause headaches, fatigue, drowsiness, dizziness, malaise to narcotic effects.

If on skin

Long-term or repeated exposure may cause skin dryness to dermatitis.

If in eyes

Direct eye contact may slightly irritate the eyes (tearing, burning, or inflammation of conjunctivae).

If swallowed

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, 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

Thermal decomposition at high temperatures or fire may produce hazardous decomposition products. Do not inhale thermal decomposition products.

5.3. Advice for firefighters

Isolation breathing apparatus and non-flammable intervention suit. Use non-sparking tools. Cool containers near fire with water spray or cover with foam. Combustion residues and water after intervention should be disposed of as hazardous waste.

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.

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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.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Ensure adequate ventilation of the work area. Avoid contact with open fire and other ignition sources. Protect from direct sunlight. Use non-sparking tools. Take precautionary measures against static discharges. Avoid the formation of gases and vapors in flammable or explosive concentrations and concentrations in excess of the maximum allowable concentrations (NPK-P) for the working atmosphere. Observe the applicable safety and health legislation. Follow chemical hygiene practices, do not eat, drink, or smoke while working. Wash your hands with soap and warm water before taking a break, eating and after work.

7.2. Conditions for safe storage, including any incompatibilities

Store in original containers in a dry, cool and well-ventilated place. Store away from heat sources, protect from direct sunlight, do not smoke. Store away from acids and oxidizing agents. Store away from food, drink and animal feeding stuffs. Store separately as flammable. Observe the general regulations for storage of pressure vessels.

Content	Packaging type	Material of package
400 ml	aerosol can	FE

Storage class 2B - Aerosols

7.3. Specific end use(s)

not available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Czech Republic

Government Regulation 330/2023 Coll.

Substance name (component)	Type	Value	Note
dimethyl ether (CAS: 115-10-6)	PEL	1000 mg/m ³	
	PEL	522 ppm	
	NPK-P	2000 mg/m ³	
	NPK-P	1045 ppm	
propan-2-ol (CAS: 67-63-0)	PEL	500 mg/m ³	irritating to mucous membranes (eyes, respiratory system) and skin
	PEL	200 ppm	
	NPK-P	1000 mg/m ³	
	NPK-P	400 ppm	
ethyl acetate (CAS: 141-78-6)	PEL	700 mg/m ³	irritating to mucous membranes (eyes, respiratory system) and skin

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Czech Republic

Government Regulation 330/2023 Coll.

Substance name (component)	Type	Value	Note
ethyl acetate (CAS: 141-78-6)	PEL	191,1 ppm	irritating to mucous membranes (eyes, respiratory system) and skin
	NPK-P	900 mg/m ³	
	NPK-P	245,7 ppm	
pentane (CAS: 109-66-0)	NPK-P	4500 mg/m ³	
	PEL	3000 mg/m ³	
	PEL	1000 ppm	
	NPK-P	1500 ppm	
n-butanol (CAS: 71-36-3)	PEL	300 mg/m ³	irritating to mucous membranes (eyes, respiratory system) and skin
	PEL	97 ppm	
	NPK-P	600 mg/m ³	
	NPK-P	194 ppm	

European Union

Commission Directive (EU) 2017/164

Substance name (component)	Type	Value	Note
ethyl acetate (CAS: 141-78-6)	OEL 8 hours	734 mg/m ³	
	OEL 8 hours	200 ppm	
	OEL 15 minutes	1468 mg/m ³	
	OEL 15 minutes	400 ppm	

European Union

Commission Directive 2000/39/EC

Substance name (component)	Type	Value	Note
dimethyl ether (CAS: 115-10-6)	OEL 8 hours	1920 mg/m ³	
	OEL 8 hours	1000 ppm	

European Union

Commission Directive 2006/15/EC

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

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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

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

Skin protection

Protective clothing of antistatic fibers; Take off contaminated clothing; wash before further use. Protective gloves (Nitrile rubber material > 0.12 mm, penetration time > 60 min. - accidental impact; Nitrile rubber material > 0.38 mm, penetration time > 480 min. - long term exposure) - when selecting, follow the manufacturer's recommendations, the material must be impermeable and resistant to the components of the mixture. Before first use, test at a specific workplace. Replace damaged gloves. Leather gloves are not suitable.

Respiratory protection

In case of increased risk of inhalation and insufficient ventilation, use a half mask with a filter against organic vapors and aerosols, filter A / P2. In the event of an accident or prolonged exposure, use self-contained breathing apparatus.

Thermal hazard

Not Specified. Avoid heating the mixture and exposure to elevated temperatures.

Environmental exposure controls

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

More information

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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid
Colour	black, grey
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	1.7 %
upper	26.2 %
Flash point	data not available
Auto-ignition temperature	> 230 °C
Decomposition temperature	data not available
pH	data not available
Kinematic viscosity	data not available
Solubility in water	Immiscible or only slightly miscible
Solubility in fats	Not Specified
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	8300 hPa at 20 °C
Density and/or relative density	
Density	0.7 g/cm ³
Relative vapour density	data not available
Particle characteristics	data not available

9.2. Other information

Appearance	liquid
Content of organic solvents (VOC)	661.2 g/l
Solid content (dry matter)	5.5 % volume
Ignition temperature: 240 °C (Dimethyl ether)	

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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

No dangerous reactions known. There is a risk of explosion of the pressure vessel when exposed to high temperatures.

10.4. Conditions to avoid

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

10.5. Incompatible materials

They are not available.

10.6. Hazardous decomposition products

Under normal conditions, the mixture is not decomposed. Incomplete combustion or thermal decomposition produces toxic products of burning (CO, CO₂, thick smoke, etc.).

SECTION 11: Toxicological information

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

Toxicological effects of the own mixture have not been assessed, toxicological data are not available. 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.

ethyl acetate

Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD ₅₀	> 18000 mg/kg		Rat	
Dermal	LD ₅₀	5620 mg/kg			
Inhalation	LC ₅₀	1600 mg/m ³	4 hours	Rat	

n-butanol

Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD ₅₀	2292 mg/kg		Rat	
Dermal	LD ₅₀	3430 mg/kg		Rabbit	
Inhalation	LC ₅₀	17000 mg/m ³	4 hours	Rat	

pentane

Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD ₅₀	> 5000 mg/kg		Rat	
Inhalation	LC ₅₀	25.3 mg/l	4 hours	Rat	

propan-2-ol

Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD ₅₀	5840 mg/kg		Rat (Rattus norvegicus)	
Dermal	LD ₅₀	13900 mg/kg		Rabbit	

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propan-2-ol					
Route of exposure	Parameter	Value	Exposure time	Species	Sex
Inhalation	LC50	>25 mg/l	6 hours	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

The 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

The mixture is classified as toxic to specific target organs at single exposure, category 3. Inhalation of vapors or aerosol can cause headache, drowsiness or dizziness, malaise, even 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.

More information

Inhalation of the aerosol may cause headache, fatigue, drowsiness, malaise to narcotic conditions, in extreme cases even unconsciousness. Do not breathe aerosol. Direct contact with the eyes may slightly irritate the eyes (tearing, burning, even conjunctivitis). Frequent or prolonged skin contact causes dryness or cracking of the skin to dermatitis.

11.2. Information on other hazards

The mixture does not contain substances identified as substances with endocrine disrupting properties. Inhalation of the aerosol can cause headaches, fatigue, drowsiness, malaise and even narcotic conditions. In contact with the eyes, it irritates the eyes (watering, burning, even conjunctivitis). Frequent or long-term contact with the skin causes drying or cracking of the skin or even dermatitis.

SECTION 12: Ecological information

12.1. Toxicity

The ecotoxic effects of the mixture were not assessed. Do not allow liquid to enter drains or surface water.

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Acute toxicity

dimethyl ether				
Parameter	Value	Exposure time	Species	Environment
EC ₅₀	>4000 mg/l	48 hours	Invertebrates (Daphnia magna)	
LC ₅₀	>4000 mg/l	96 hours	Fish	
EC ₅₀	155 mg/l	96 hours	Algae	

n-butanol				
Parameter	Value	Exposure time	Species	Environment
LC ₅₀	1376 mg/l	96 hours	Fish	

pentane				
Parameter	Value	Exposure time	Species	Environment
EC ₅₀	9.7 mg/l	48 hours	Invertebrates (Daphnia magna)	
LC ₅₀	4.26 mg/l	96 hours	Fish	
EC ₅₀	4.26 mg/l	96 hours	Fish	

propan-2-ol				
Parameter	Value	Exposure time	Species	Environment
LC ₅₀	9640 mg/l	96 hours	Fish (Pimephales promelas)	
LC ₅₀	9714 mg/l	24 hours	Invertebrates (Daphnia magna)	

More information

The ecotoxic effects of the mixture were not assessed. Do not allow liquid to enter drains or surface water.

12.2. Persistence and degradability

Data not available.

12.3. Bioaccumulative potential

Data not available.

12.4. Mobility in soil

Data not available.

12.5. Results of PBT and vPvB assessment

Mixture does not meet the criteria for classification as PBT and vPvB.

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

The mixture is classified as harmful to aquatic organisms. Water hazard class: 2 (self-classification (hazardous to water)) Avoid release into soil, ground or surface water or sewers. Observe usual environmental protection measures.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of as hazardous waste, hand over to authorized person for disposal (eg disposal in hazardous waste incinerator). Dispose of packaging and packaging residues in accordance with local waste disposal regulations. Do not dispose of with household waste. Do not empty into drains. Uncontaminated or thoroughly cleaned packaging can be handed over for recycling.

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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 Act No. 185/2001 Coll. as amended. Act No. 477/2001 Coll., On packaging, 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 04 metallic packaging

(*) - 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

Yes.

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.

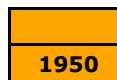
Additional information

Hazard identification No.

UN number

Classification code

Safety signs



5F

2.1



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

CV9, CV12

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Railway transport - RID

Special provisions 190, 327, 344, 625

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.

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out for this mixture.

More information

Category Seveso P3a Flammable aerosols

Qualifying quantity (in tons) when applying the requirements for the sub-limit quantity of 150 t

Qualifying quantity (in tonnes) when applying the requirements for the quantity exceeding the limit of 500 t

Council (EC) No. 1907/2006 ANNEX XVII Limiting conditions: 3

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.
H280	Contains gas under pressure; may explode if heated.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.

SAFETY DATA SHEET

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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H335	May cause respiratory irritation.
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

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.
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 according to applicable regulations.

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

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

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
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
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

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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

Acute Tox.	Acute toxicity
Aerosol	Aerosol
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
Asp. Tox.	Aspiration hazard
Eye Dam.	Serious eye damage
Flam. Gas	Flammable gas
Flam. Liq.	Flammable liquid
Press. Gas	Gases under pressure
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)

Modification of the composition of the mixture, update of the SDS in accordance with the modification of Annex II of the REACH Regulation.

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.