according to Regulation (EC) No 1907/2006 (REACH) as amended

TELSOL PUR 3

Creation date	23rd November 2016		
Revision date	22nd April 2022	Version	2.0

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

1.1. Product identifier — TELSOL PUR 3

Substance / mixture: mixture

UFI: 6Y1W-G0K0-400J-P34P

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

Mixture's intended use

Thinner for polyurethane paints TELPUR.

Main intended use

PC-PNT-7 Paint removers, thinners and related auxiliaries

Mixture uses advised against

not available

Exposure scenario is attached to the Safety Data Sheet.

1.3. Details of the supplier of the safety data sheet

Distributor

Name or trade name	BARVY A LAKY TELURIA,s.r.o.
Address	č.p.1, Skrchov, 679 61 Czech Republic
Identification number (CRN)	43420371
VAT Reg No	CZ43420371
Phone	+420 516 474 211
E-mail	tel@teluria.cz
Web address	http://www.bal.cz

Competent person responsible for the safety data sheet

Name	BARVY A LAKY TELURIA,s.r.o.
E-mail	tel@teluria.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.

Flam. Liq. 3, H226
Asp. Tox. 1, H304
Acute Tox. 4, H312+H332
Skin Irrit. 2, H315
Eye Irrit. 2, H319
STOT SE 3, H335
STOT RE 2, H373

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

Most serious adverse physico-chemical effects

Flammable liquid and vapour.

Most serious adverse effects on human health and the environment

Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure. May be fatal if swallowed and enters airways. Harmful in contact with skin or if inhaled.

2.2. Label elements

Hazard pictogram

Signal word

Danger

Hazardous substances

reaction mass of ethylbenzene and xylene

Hazard statements

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H312+H332	Harmful in contact with skin or if inhaled.

Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260	Do not breathe vapours.
P280	Wear protective gloves/eye protection.
P301+P310	IF SWALLOWED: Immediately call a doctor.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P501	Dispose of contents/container to in accordance with local regulations by handing over to a person authorized to dispose of waste or a site designated by the town.

2.3. Other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

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according to Regulation (EC) No 1907/2006 (REACH) as amended

TELSOL PUR 3

Creation date	23rd November 2016		
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SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixture of substances and additives specified below. The mixture contains a reaction mixture of o, m, p-xylene and ethylbenzene (ethylbenzene content <26%).

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: 607-195-00-7 CAS: 108-65-6 EC: 203-603-9 Registration number: 01-2119475791-29	2-methoxy-1-methylethyl acetate	55-60	Flam. Liq. 3, H226	2
EC: 905-588-0 Registration number: 01-2119539452-40	reaction mass of ethylbenzene and xylene	40-50	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Acute Tox. 4, H312+H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373	1, 2

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 Substance with a Union workplace exposure limit.

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

Do not perform artificial respiration without self-protection (e.g. a mask). Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

If inhaled

Take care of your own safety, do not let the affected person walk! Terminate the exposure immediately; move the affected person to fresh air. Beware of the contaminated clothes. Depending on the situation, call the medical rescue service and ensure medical treatment considering the frequent need of further observation for at least 24 hours.

If on skin

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible. Soap, soap solution or shampoo should be used if there is no skin injury. Provide medical treatment if skin irritation persists. Rinse skin with water or shower.

If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Rinsing should continue at least for 10 minutes. Provide medical treatment, specialized if possible.

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If swallowed

If the affected person vomits, make sure to prevent inhalation of the vomit (as there is a danger of lung damage after inhalation of these liquids in the airways also in infinitesimal amount). Ensure medical treatment considering the frequent need of further observation for at least 24 hours. Bring an original container with the label and the Safety Data Sheet of the given substance as appropriate.

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

If inhaled

Cough, headache. May cause respiratory irritation.

If on skin

Causes skin irritation.

If in eyes

Causes serious eye irritation.

If swallowed

Irritation, nausea.

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

Symptomatic treatment. Pay attention: contains organic solvents. Ingestion or vomiting may occur due to aspiration into the lungs and then a rapid absorption and damage to other organs. In case of suspected break-liquid ingredients into the lungs get medical help immediately. Get medical supervision for at least 48 hours after ingestion of liquid.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

Unsuitable extinguishing media

Water - full jet.

5.2. Special hazards arising from the substance or mixture

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. 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

For workers apart from emergency teams: Avoid inhalation of vapour, prevent skin and eye contact. Wear appropriate protective clothing and gloves. Wear eye protection and face shield if necessary. Use suitable respiratory protection. In closed spaces, ensure fresh air supply. Eliminate all ignition sources. No smoking and no open fire. Keep unnecessary personnel away.

For members of emergency teams: Use appropriate personal protective equipment – protective clothing with antistatic finish and impermeable work shoes. Treat unprotected skin with barrier cream. Anti-chemical protective gloves. For short-time exposure or low concentration, use respirator with organic vapour and dust filter (protection level A/P2); for high concentration and long-term exposure, self-contained respirator is necessary.

6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water. If possible prevent leakage, close container and place damaged container in protective container. In the event of substantial pollution, contact respective authorities and wastewater treatment plants.

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6.3. Methods and material for containment and cleaning up

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents.

6.4. Reference to other sections

See the Section 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

7.1.1. General health measures

Use the product after due familiarization with its hazard characteristics and proper training or training in its safe use. Do not eat, drink, smoke on the site. Wash your hands and other contaminated parts of body by soap and water before eating and after the use of product is finished. Abide by requirements on personal hygiene when working with hazardous chemical products.

Use technical equipment on the site to control human and environment exposure. Regularly inspect the equipment, ensure cleaning, timely maintenance and permanent functionality. When working, use the recommended personal protective equipment listed in 8.2 of the Safety Data Sheet and in Annex to the Safety Data Sheet. Keep the protective clothing and protective equipment sound and clean. Immediately replace the damaged protective aids for sound ones. Keep the site, tools and aids clean and in sound state. On the site, keep the product in labelled containers or tanks. Store product waste and wastes contaminated by the product in suitable and properly labelled vessels located on designated marked and protected places. Ensure long-term storing of wastes containing the product outside the site.

7.1.2. Fire precautions

When using the product, prevent potential ignition or explosion of the mixture of product vapour and air caused by contact with open flame, sparks, extremely hot surfaces, electrostatic discharges. Do not smoke on the site, use non-sparking tools. Places with increased occurrence of the vapour-air mixture need to be ventilated to prevent formation of explosive mixtures. Solvent vapours are heavier than air. The site should be protected from electrostatic discharges.

7.1.3. Environmental precautions

Handle the product on a site technically adapted to avoid accidental leakage to sewerage systems, water or soil. Product waste and wastes contaminated by the product to be disposed of as hazardous waste. Waste water contaminated by the product may only be discharged to water reservoirs after the product components are properly removed in a waste water treatment plant or in other appropriate treatment plant able to remove drifted product components from water. Do not pour the product to waste water. Emissions of solvent from point sources are subjected to control requirements acc. to air protection regulations.

7.2. Conditions for safe storage, including any incompatibilities

Store the product in properly marked, closed containers in well ventilated spaces at 5 – 25 °C. The storages must meet the requirements on storing of flammable liquids and substances hazardous for aquatic life and soil. Protect from heat, hot surfaces, sparks, open flame and other ignition sources. No smoking. Store away from oxidising substances and strong acids. Do not store with food, drinks, feed material, medicines. Storages should be protected from static electricity. First aid kit and water suitable for eye rinsing should be available. Keep away from products that are corrosive to metals (eg acids or pool chemicals).

Content	Packaging type	Material of package
4 l	jerry can	FE
9 l	jerry can	FE

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Storage class	3A - Flammable liquids (flash point below 55 °C)
Storage temperature	min 5 °C, max 25 °C

The specific requirements or rules relating to the substance/mixture

Solvent vapours are heavier than air and accumulate especially near the floor where they may form an explosive mixture with the air.

7.3. Specific end use(s)

The conclusions from the chemical safety assessment of the mixture for use as a solvent, paint thinner and as a cleaning agent are incorporated in the relevant sections of the safety data sheet. Specific requirements for the safe industrial and professional use of the diluent from the point of view of worker protection and environmental protection, developed on the basis of information from exposure scenarios for the given types of use, are given in the annex to the safety data sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

European Union **Commission Directive 2000/39/EC**

Substance name (component)	Type	Value	Note
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	OEL 8 hours	275 mg/m³	Skin
	OEL 8 hours	50 ppm	
	OEL 15 minutes	550 mg/m³	
	OEL 15 minutes	100 ppm	
xylenes	OEL 8 hours	221 mg/m³	Skin
	OEL 8 hours	50 ppm	
	OEL 15 minutes	442 mg/m³	
	OEL 15 minutes	100 ppm	
ethylbenzene	OEL 8 hours	442 mg/m³	Skin
	OEL 8 hours	100 ppm	
	OEL 15 minutes	884 mg/m³	
	OEL 15 minutes	200 ppm	

DNEL

2-methoxy-1-methylethyl acetate

Workers / consumers	Route of exposure	Value	Effect	Determining method	Source
Workers	Inhalation	275 mg/m³	Systemic chronic effects		
Workers	Inhalation	550 mg/m³	Local acute effects		
Workers	Dermal	796 mg/kg bw/day	Systemic chronic effects		
Consumers	Inhalation	33 mg/m³	Systemic chronic effects		
Consumers	Inhalation	33 mg/m³	Systemic acute effects		

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2-methoxy-1-methylethyl acetate

Workers / consumers	Route of exposure	Value	Effect	Determining method	Source
Consumers	Dermal	320 mg/kg bw/day	Systemic chronic effects		
Consumers	Oral	36 mg/kg bw/day	Systemic chronic effects		

reaction mass of ethylbenzene and xylene

Workers / consumers	Route of exposure	Value	Effect	Determining method	Source
Workers	Inhalation	221 mg/m³	Systemic chronic effects		
Workers	Inhalation	221 mg/m³	Local chronic effects		
Workers	Inhalation	442 mg/m³	Local acute effects		
Workers	Dermal	212 mg/kg bw/day	Systemic chronic effects		
Consumers	Inhalation	65.3 mg/m³	Systemic chronic effects		
Consumers	Inhalation	260 mg/m³	Systemic acute effects		
Consumers	Dermal	125 mg/kg bw/day	Systemic chronic effects		
Consumers	Oral	12.5 mg/kg bw/day	Systemic chronic effects		
Workers	Inhalation	221 mg/m³	Local chronic effects		
Workers	Inhalation	442 mg/m³	Systemic acute effects		
Consumers	Inhalation	65.3 mg/m³	Local chronic effects		
Consumers	Inhalation	260 mg/m³	Local chronic effects		

PNEC

2-methoxy-1-methylethyl acetate

Route of exposure	Value	Determining method	Source
Freshwater environment	0.635 mg/l		
Seawater	0.0635 mg/l		
Water (intermittent release)	6.35 mg/l		
Microorganisms in wastewater treatment plants	100 mg/l		
Freshwater sediment	3.29 mg/kg of dry substance of sediment		
Sea sediments	0.329 mg/kg of dry substance of sediment		
Soil (agricultural)	0.29 mg/kg of dry substance of soil		

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reaction mass of ethylbenzene and xylene

Route of exposure	Value	Determining method	Source
Freshwater environment	327 µg/l		
Seawater	327 µg/l		
Microorganisms in wastewater treatment plants	6.58 mg/l		
Freshwater sediment	12.46 mg/kg of dry substance of sediment		
Sea sediments	12.46 mg/kg of dry substance of sediment		
Soil (agricultural)	2.31 mg/kg of dry substance of soil		

8.2. Exposure controls

Conditions of safe use of the registered product composition components specified in exposure scenarios to Safety Data Sheets of the components are given in Annex of the SDS, including the required additional measures restricting the exposure – see the exposure scenarios for the intended uses of the product.
General safety and hygienic measures. When working, do not eat, drink, smoke. Before the break and after the work, hands should be washed with soap and hot water, treated with barrier cream. Overall and local ventilation, effective extraction.

Eye/face protection

Protective goggles (closed eye protection) resistant to organic solvent or face shield.

Skin protection

Skin protection: Protective clothes with antistatic finish, protective shoes; treat unprotected skin with barrier cream.
Hand protection: Chemical resistant protective gloves (EN 374-1:2003). Suitable material – fluoroelastomer, PVA and others, time of penetration corresponding to > 480 minutes. The time of penetration specified by the manufacturer should be followed and the glove replaced after expiration. If damaged, the gloves should be replaced immediately.
The selection of suitable protective gloves does not only depend on their material, but also on other qualitative features. Furthermore, since the mixture can be used for various purposes, mixed with other substances, the suitability of gloves for all purposes cannot be predetermined and must be verified in particular use.

Respiratory protection

Don´t breathe vapours. For short-time exposure or low concentration, use respirator with organic vapour and dust filter (protection level A/P2); for high concentration and long-term exposure, self-contained respirator is necessary.

Thermal hazard

Not available.

Environmental exposure controls

Ensure that containers are properly closed during storage, handling and transport. Secure storage areas against possible leakage of product into the environment (sewerage, water, soil - see 6.2). Do not flush product into drains or watercourses.

More information

Exposure scenario is attached to the Safety Data Sheet.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid
Colour	colourless
Odour	characteristic

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Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	data not available
Flammability	inflammable
Lower and upper explosion limit	data not available
Flash point	>23 °C
Auto-ignition temperature	data not available
Decomposition temperature	not applicable
pH	non-soluble (in water)
Kinematic viscosity	data not available
Solubility in water	data not available
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	data not available
Density and/or relative density	
Density	0,915 g/cm³ at 20 °C
Relative vapour density	data not available
Particle characteristics	data not available

9.2. Other information

Total organic carbon (TOC)	0,73 kg/kg

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 product is volatile and evaporates under standard temperature and pressure. It is stable when stored and handled under standard ambient conditions.

10.3. Possibility of hazardous reactions

No known dangerous reactions when used under standard conditions. Flammable liquid. Vapours may form explosive mixture with air. Vapours are heavier than air, accumulate near the ground and below ground, and the fire can spread over long distances.

10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

SECTION 11: Toxicological information

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

Inhalation of solvent vapors above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time. No toxicological data is available for the mixture.

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Acute toxicity

Harmful in contact with skin or if inhaled.

2-methoxy-1-methylethyl acetate

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Oral	LD_{50}	>5000 mg/kg		Rat (Rattus norvegicus)	
Inhalation	LC_{50}	>23500 mg/m³	6 hour	Rat (Rattus norvegicus)	
Dermal	LD_{50}	>5000 mg/kg		Rabbit	

reaction mass of ethylbenzene and xylene

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Oral	LD_{50}	3523 mg/kg bw		Rat (Rattus norvegicus)	M
Inhalation	LC_{50}	29000 mg/m³		Rat (Rattus norvegicus)	
Dermal	LD_{50}	12126 mg/kg bw		Rabbit	M

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation

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

May cause respiratory irritation.

Toxicity for specific target organ - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

May be fatal if swallowed and enters airways.

11.2. Information on other hazards

not available

SECTION 12: Ecological information

12.1. Toxicity

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Acute toxicity

No information available for the mixture. The mixture should not be allowed to enter soil, water and sewage sources.

2-methoxy-1-methylethyl acetate

Parameter	Value	Time of exposure	Species	Environment
LC_{50}	134 mg/l	96 hour	Fishes (Oncorhynchus mykiss)	
EC_{50}	408 mg/l	48 hour	Daphnia (Daphnia magna)	
ErC_{50}	>1000 mg/l	96 hour	Algae and other aquatic plants	

reaction mass of ethylbenzene and xylene

Parameter	Value	Time of exposure	Species	Environment
LC_{50}	2.6 mg/l	96 hour	Fishes (Oncorhynchus mykiss)	
EC_{50}	1 mg/l	48 hour	Daphnia (Daphnia magna)	
EC_{50}	2.2 mg/l	72 hour	Algae (Selenastrum capricornutum)	

12.2. Persistence and degradability

Biodegradability

reaction mass of ethylbenzene and xylene

Parameter	Value	Time of exposure	Environment	Result
				Easily biodegradable

not available

12.3. Bioaccumulative potential

2-methoxy-1-methylethyl acetate

Parameter	Value	Time of exposure	Species	Environment	Surrounding temperature [°C]
BCF	<100				
Log Pow	<3				

reaction mass of ethylbenzene and xylene

Parameter	Value	Time of exposure	Species	Environment	Surrounding temperature [°C]
BCF	25.9				

not available

12.4. Mobility in soil

2-methoxy-1-methylethyl acetate

Parameter	Value	Environment	Surrounding temperature
Koc	1.7		

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The mixture is a liquid insoluble in water, in case of leakage into environment, it may be dispersed over large distances and penetrate into underground water. It contains components with the potential of mobility in soil. When released into the soil may occur due to contamination of groundwater.

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. Endocrine disrupting properties

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

12.7. Other adverse effects

Possible impacts on the waste water treatment plant: the concentration of this substance in the waste water to be treated must be in a controlled mode in accordance with the sewage regulations. The mixture may contaminate soil and water and may damage the fauna and flora. Harms public health and the environment by destroying ozone in the upper atmosphere.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

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 03 04 other organic solvents, washing liquids and mother liquors *

Packaging waste type code

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 1263

14.2. UN proper shipping name

PAINT

14.3. Transport hazard class(es)

3 Flammable liquids

14.4. Packing group

III - substances presenting low danger

14.5. Environmental hazards

not relevant

14.6. Special precautions for user

Reference in the Sections 4 to 8.

14.7. Maritime transport in bulk according to IMO instruments

not relevant

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Additional information

Hazard identification No.	**30**
UN number	**1263**
Classification code	F1
Safety signs	3

Air transport - ICAO/IATA

Packaging instructions passenger	355
Cargo packaging instructions	366

Marine transport - IMDG

EmS (emergency plan)	F-E, S-E
MFAG	310

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.

15.2. Chemical safety assessment

Chemical safety assessment was carried out on all substances of mixture. The respective exposure scenarios are incorporated in Annex of this Safety Data Sheet.

SECTION 16: Other information

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

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H312+H332	Harmful in contact with skin or if inhaled.

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.
P280	Wear protective gloves/eye protection.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

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P501	Dispose of contents/container to in accordance with local regulations by handing over to a person authorized to dispose of waste or a site designated by the town.
P301+P310	IF SWALLOWED: Immediately call a doctor.
P260	Do not breathe vapours.

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. The user is responsible for adherence to all related health protection regulations.

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_{50}	Concentration of a substance when it is affected 50% of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
ES	Identification code for each substance listed in EINECS
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
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
MARPOL	International Convention for the Prevention of Pollution from Ships
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
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
Acute Tox.	Acute toxicity

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Asp. Tox.	Aspiration hazard
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquid
Skin Irrit.	Skin irritation
STOT RE	Specific target organ toxicity - repeated exposure
STOT SE	Specific target organ toxicity - single exposure

Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

Recommended restrictions of use

not available

Information about data sources used to compile the Safety Data Sheet

Commission Regulation (EU) 2020/878 of 18 June 2020. 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)

The version 2.0 replaces the SDS version from 23.11.2016. Overall revision of SDS according to Commission Regulation (EU) 2020/878.

More information

Classification procedure - calculation method.

Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.

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EXPOSURE SCENARIO - Annex to the Safety Data Sheet

Recommendations for the safe use of thinner

Industrial use as thinner, solvent and for cleaning	
It covers the use of the product as a thinner, solvent and cleaning agent, including moving the product from warehouse, filling/emptying containers and equipment, exposure during mixing and dilution in the preparation phase, application processes (including spraying, brushing, dipping, mechanical and manual wiping), cleaning and maintenance of relevant equipment, laboratory activities.	
Descriptors of sub-activities covered	PROC1, PROC2, PROC3, PROC5, PROC7, PROC8a, PROC8b, PROC10, PROC13, PROC15, PROC19; ERC4
General conditions of validity of the guidelines	Unless otherwise stated, the following instructions cover work with the product of up to a concentration of 100 %, at a temperature not exceeding ambient temperature by more than 20 °C, 8 hours a day, indoors.
Basic requirements for technical and organizational working conditions and risk reduction measures	The basic principles of good occupational hygiene are applied in the workplace (see section 7 of the Safety Data Sheet). Wear safety goggles or face shield if there is a risk of splashing and eye exposure. Use protective gloves if there is a risk of prolonged contact with your hands (see section 8.2 of the Safety Data Sheet). Work in protective work clothes. Unless otherwise stated below, ensure a good level of general ventilation (3-5 air changes/h or more) or better at the workplace. This can be achieved by ventilation through open windows and doors or by using more efficient forced ventilation systems (10-15 air changes per hour). Use respiratory protection if NPK or PEL values are exceeded (see section 8 of the Safety Data Sheet). Workplaces must meet the requirements for work with flammable liquids capable of producing explosive mixtures of vapours with air. The workplace must meet the requirements against accidental leaks of the product into water or soil.
Specific requirements for safe use from the point of view of employee protection:	
Sub-activities (Process code)	Additional requirements for technical conditions of use and risk reduction measures
Use of the substance in closed continuous and batch processes (PROC1, PROC2, PROC3)	Local exhaust ventilation at the point of potential emission leakage from a closed facility. No additional requirements (work in closed facilities).
Use of the substance during mixing and dilution in an open facility (PROC5)	Use a forced ventilation system (10-15 air changes per hour).
Industrial spray/mist application (PROC7)	Machine applications in a closed chamber equipped with ventilation with laminar flow. Use a respirator complying with the ČSN EN 140 standard with a type A filter or better.
Product transfers, pumping, pouring in an open system with the possibility of exposure (PROC8a)	Avoid exposure for more than 1 hour when working with the product in concentrations higher than 80 %.
Product transfers, pumping, pouring in a closed system with limited exposure (PROC8b)	Use local exhaust ventilation at points of release of emissions into the air.
Application by roller or brush, including cleaning of these tools (PROC10)	Use local exhaust ventilation at points of release of emissions into the air. Avoid exposure for more than 1 hour.
Application by dipping or pouring (PROC13)	Use a forced ventilation system (10-15 air changes per hour).
Manual wiping, mixing and hand application (PROC19)	Wear chemically resistant protective gloves in combination with training (see section 8.2 of the Safety Data Sheet).
Laboratory activities (PROC15)	Handling in a hood or in the presence of vacuum ventilation. Avoid exposure for more than 15 minutes outside the hood.
Storage	In closed containers, no additional requirements.
Activities with product waste and waste contaminated by the product	Wear protective gloves if there is a risk of contact with waste. Store waste in resealable containers stored in well-ventilated areas or outdoors. Secure waste against leakage into water and soil.
Specific requirements from the point of view of environmental protection:	
Requirements from the point of view of air protection	If the limits of solvent consumption set by Decree No.171 /2016 Coll. are exceeded, use procedures for the recovery of solvents from waste air or dispose of solvents by their combustion or by other procedures guaranteeing compliance with the emission parameters laid down by air protection regulations.
Requirements from the point of view of water protection	Before discharging to surface or ground water, clean water contaminated with the product by physical or biological methods to the residual level of pollution prescribed by water protection regulations. When discharging treated waste water, observe the pollution parameters set for the given facility by the water management authority.
Requirements from the point of view of waste management	Dispose of solvent waste from cleaning equipment and work tools as hazardous waste. Prevent leakage or discharge of any liquid waste into surface and ground water. Use, regenerate or dispose of product waste as hazardous waste by combustion, as appropriate.

Professional use as thinner, solvent and for cleaning	
It covers the use of the product as a thinner, solvent and cleaning agent, including moving the product from warehouses, filling/emptying containers and equipment, exposure during mixing and dilution in the preparation phase, application processes (including spraying, brushing, dipping, mechanical and manual wiping) and cleaning and maintenance of relevant equipment.	
Descriptors of sub-activities covered.	PROC1, PROC2, PROC3, PROC5, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC19; ERC8a (indoor use), ERC8d (outdoor use)
General conditions of validity of the guidelines.	Unless otherwise stated, the following instructions cover work with the product of up to a concentration of 100 %, at a temperature not exceeding ambient temperature by more than 20 °C, 8 hours a day, indoors.
Basic requirements for technical conditions of use and risk reduction measures.	The basic principles of good occupational hygiene are applied in the workplace (see section 7 of the Safety Data Sheet). Wear safety goggles or face shield if there is a risk of splashing and eye exposure. Use protective gloves if there is a risk of prolonged contact with your hands (see section 8.2 of the Safety Data Sheet). Unless otherwise stated below, ensure a good level of basic ventilation (3-5 air changes/h) at indoor workplaces. This can be achieved by ventilation through open windows and doors or more efficient forced ventilation (10-15 air changes per hour). Use respiratory protection if NPK or PEL values are exceeded (see section 8 of the Safety Data Sheet). Workplace measures are in place to prevent the formation of a fire or explosion of a mixture of product vapours with air (see section 7 of the Safety Data Sheet).
Specific requirements for safe use from the point of view of employee protection:	
Sub-activities (Process code)	**Additional requirements for technical conditions of use and risk reduction measures**
Use of the substance in closed continuous and batch processes (PROC1, PROC2, PROC3)	Local exhaust ventilation at the point of potential emission leakage from a closed facility. No additional requirements (work in closed facilities).
Use of the substance during mixing and dilution in an open facility (PROC5)	When working indoors, use a forced ventilation system (10-15 air changes per hour). There are no requirements for additional measures when working outdoors.
Product transfers, pumping, pouring in an open system with the possibility of exposure (PROC8a) (one of the above procedures can be used)	When working indoors, use local exhaust ventilation at potential emission points. Work indoors without local exhaust ventilation for a maximum of 1 hour per day. For the rest of the work shift, the employee should no longer be exposed to product vapours. Work outdoors.
Product transfers, pumping, pouring in a closed system with limited possibility of exposure (PROC8b)	Local exhaust ventilation at the point of potential emission leakage from a closed facility. No additional requirements (work in closed facilities).
Application by roller or brush, including cleaning of these tools (PROC10) (one of the above procedures can be used)	When working indoors, use a forced ventilation system (10-15 air changes per hour). When working indoors with a concentrated product, use a protective mask according to ČSN EN 140 with a type A filter or better. Work outdoors.
Non-industrial (manual) spray/mist application (PROC11) (one of the above procedures can be used)	When working indoors, use a protective mask according to ČSN EN 140 with a type A filter or better. The product can be sprayed for up to 4 hours a day under conditions of ventilation with laminar flow. The employee should not be exposed to the product for the rest of the working time. Work outdoors.
Application by dipping or pouring (PROC13)	Use local exhaust ventilation at points of release of emissions into the air.
Manual wiping, mixing and hand application (PROC19) (one of the above procedures can be used)	When working indoors, work with a mixture containing no more than 25 % of the product. When working outdoors, avoid activities involving exposure to the concentrated product for more than 1 hour.
One-off manual application using aerosol applicators, by dipping, roller application, brush application (PROC10)	Indoors: local exhaust ventilation or good basic ventilation (3-5 air changes/h) together with the use of respiratory protection meeting the requirements of ČSN EN 140 with a type A filter or better. Outdoors: use respiratory protection meeting the requirements of ČSN EN 140 with a type A filter or better.
Laboratory activities (PROC15)	Handling in a hood or in the presence of vacuum ventilation. Avoid exposure for more than 15 minutes outside the hood.
Storage	In closed containers, no additional requirements.
Equipment cleaning and maintenance	Drain, rinse.
Activities with product waste and waste contaminated by the product	Wear protective gloves if there is a risk of contact with waste. Store waste in resealable containers stored in well-ventilated areas or outdoors. Secure waste against leakage into water and soil.
Specific requirements from the point of view of environmental protection:	

Requirements from the point of view of air protection	There are no special emission control requirements when working outdoors. When working indoors, limit product emissions to the open air depending on the activities performed and the year-round amount of volatile organic compounds used in accordance with the requirements of air protection regulations.
Requirements from the point of view of water protection	Before discharging to surface or ground water, clean water contaminated with the product by physical or biological methods to the residual level of pollution prescribed by water protection regulations or capture and dispose of it as hazardous waste in cooperation with an authorized person.
Requirements from the point of view of waste management	Prevent leakage or discharge of any liquid waste into surface and ground water without treatment When discharging treated waste water, observe the pollution parameters set for the given facility by the water management authority. Dispose of solvent waste from cleaning equipment and work tools as hazardous waste.