

SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended



S7307 HARDENER for two-component epoxy paints

Creation date	19th October 2017	Version	2.0
Revision date	24th February 2023		

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

- 1.1. Product identifier**
S7307 HARDENER for two-component epoxy paints
Substance / mixture mixture
Number S7307-A-C0000
UFI YCS2-70UE-P109-R09Y
Other mixture names
S7307 Tužidlo pro dvousložkové epoxidové nátěrové hmoty TUŽIDLO
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**
Mixture's intended use
HARDENER S7307 is used for hardening the prescribed two-component solvent-borne epoxy paints EPAX.
Main intended use
PC-PNT-7 Paint removers, thinners and related auxiliaries
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**
Manufacturer
Name or trade name COLORLAK, a.s.
Address Tovární 1076, Staré Město, 686 03
Czech Republic
Identification number (CRN) 49444964
VAT number CZ49444964
Phone +420 572527111
Email colorlak@colorlak.cz
Web address www.colorlak.cz
Competent person responsible for the safety data sheet
Name Ing. Veronika Chytilová
Email chytilova@colorlak.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
Skin Irrit. 2, H315
Skin Sens. 1A, H317
Eye Dam. 1, H318
STOT SE 3, H335
STOT RE 2, H373 (central nervous system)
Aquatic Chronic 2, H411

Most serious adverse physico-chemical effects

Flammable liquid and vapour.

Most serious adverse effects on human health and the environment

Causes serious eye damage. May cause an allergic skin reaction. Causes skin irritation. May cause damage to the central nervous system through prolonged or repeated exposure. May cause respiratory irritation. Toxic to aquatic life with long lasting effects.

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2.2. Label elements

Hazard pictogram



Signal word

Danger

Hazardous substances

Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine
Technical xylene (mixed with ethylbenzene)

Hazard statements

H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H373	May cause damage to the central nervous system through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260	Do not breathe vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P314	Get medical advice/attention if you feel unwell.
P370+P378	In case of fire: Use foam (alcohol resistant), carbon dioxide, a spray mist, powder to extinguish.
P391	Collect spillage.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container to by handing over to a person authorized to dispose of waste or a site designated by the town.

Requirements for child-resistant fastenings and tactile warning of danger

Container must carry a tactile warning of danger.

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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SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

A solution of polyamine amide in organic solvents. Mixture of substances and additives specified below.

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
CAS: 68082-29-1 EC: 500-191-5 Registration number: 01-2119972320-44	Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	59-64	Skin Irrit. 2, H315 Skin Sens. 1A, H317 Eye Dam. 1, H318 Aquatic Chronic 2, H411	2
EC: 905-588-0 Registration number: 01-2119539452-40	Technical xylene (mixed with ethylbenzene)	32-36	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 Specific concentration limit: STOT RE 2, H373 (central nervous system): C ≥ 10 % ATE Dermal = 1100 mg/kg bw ATE Inhalation (vapor) = 11 mg/l	1
Index: 603-108-00-1 CAS: 78-83-1 EC: 201-148-0 Registration number: 01-2119484609-23	2-methylpropan-1-ol	1-2	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335, H336	

Notes

- 1 A substance for which exposure limits are set.
- 2 Substance of unknown or variable composition, complex reaction products or biological materials - UVCB.

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

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

Terminate the exposure immediately; move the affected person to fresh air. Protect the person against growing cold. Provide medical treatment if irritation, dyspnoea or other symptoms persist.

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. No neutralization should be performed in any case! Rinsing should be continued for 10-30 minutes from the inner to the outer eye corner to make sure that the other eye is not involved. Depending on the situation, call medical rescue service or ensure medical treatment as promptly as possible. Everyone must be referred for treatment even if affected only a little.

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If swallowed

Rinse out the mouth with water and provide 2-5 dL of water. Provide medical treatment if the person has any health problems.

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

If inhaled

Inhaling vapours can cause corrosion of the breathing system. Cough, headache. May cause respiratory irritation.

If on skin

May cause an allergic skin reaction.

If in eyes

Causes serious eye damage.

If swallowed

Corrosion of the digestion system can occur.

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

Symptomatic treatment.

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

Provide sufficient ventilation. Flammable liquid and vapour. Remove all ignition sources. Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Do not inhale mist/vapours/spray. Prevent contact with skin and eyes.

6.2. Environmental precautions

Do not allow to enter drains. Prevent contamination of the soil and entering surface or ground water.

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.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Prevent formation of gases and vapours in flammable or explosive concentrations and concentrations exceeding the occupational exposure limits. The product should be used only in the areas where it is not in contact with open fire and other ignition sources. Use non-sparking tools. Use of antistatic clothes and footwear is recommended. Do not inhale mist/vapours/spray. Prevent contact with skin and eyes. No smoking. Contaminated work clothing should not be allowed out of the workplace. Wash hands and exposed parts of the body thoroughly after handling. Use only outdoors or in a well-ventilated area. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Take action to prevent static discharges. Avoid release to the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Do not expose to sunlight. Store locked up. Keep container tightly closed. Keep cool.

Content	Packaging type	Material of package
0,17 kg	can / tin	FE
0,5 l	can / tin	FE
1 kg	can / tin	FE
2 l	can / tin	FE
3 kg	can / tin	FE
4 kg	can / tin	FE
180 kg	barrel / drum	FE

Storage class

8A - Combustible corrosive substances

Storage temperature

+5 - 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)

not available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.

European Union

Commission Directive 91/322/EEC

Substance name (component)	Type	Value
Technical xylene (mixed with ethylbenzene)	OEL 8 hours	442 mg/m ³
	OEL 8 hours	100 ppm
	OEL 15 minutes	884 mg/m ³
	OEL 15 minutes	200 ppm
	OEL 8 hours	221 mg/m ³
	OEL 8 hours	50 ppm
	OEL 15 minutes	442 mg/m ³
	OEL 15 minutes	100 ppm

DNEL

2-methylpropan-1-ol				
Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Inhalation	310 mg/m ³	Chronic effects local	BL dodavatele
Consumers	Inhalation	55 mg/m ³	Chronic effects local	BL dodavatele

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Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine

Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Inhalation	3.9 mg/m ³	Chronic effects systemic	BL dodavatele
Workers	Dermal	1.1 mg/kg bw/day	Chronic effects systemic	BL dodavatele
Consumers	Inhalation	0.97 mg/m ³	Chronic effects systemic	BL dodavatele
Consumers	Dermal	0.56 mg/kg bw/day	Chronic effects systemic	BL dodavatele
Consumers	Oral	0.56 mg/kg bw/day	Chronic effects systemic	BL dodavatele

Technical xylene (mixed with ethylbenzene)

Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Inhalation	221 mg/m ³	Chronic effects systemic	BL dodavatele
Workers	Inhalation	442 mg/m ³	Acute effects systemic	BL dodavatele
Workers	Dermal	212 mg/kg bw/day	Chronic effects systemic	BL dodavatele
Consumers	Inhalation	65.3 mg/m ³	Chronic effects local	BL dodavatele
Consumers	Dermal	125 mg/kg bw/day	Chronic effects systemic	BL dodavatele
Consumers	Oral	12.5 mg/kg bw/day	Chronic effects systemic	BL dodavatele
Workers	Inhalation	221 mg/m ³	Chronic effects local	BL dodavatele
Workers	Inhalation	442 mg/m ³	Acute effects local	BL dodavatele
Consumers	Inhalation	260 mg/m ³	Acute effects systemic	BL dodavatele
Consumers	Inhalation	260 mg/m ³	Acute effects local	BL dodavatele

PNEC

2-methylpropan-1-ol

Route of exposure	Value	Source
Freshwater environment	0.4 mg/l	BL dodavatele
Marine water	0.04 mg/l	BL dodavatele
Water (intermittent release)	11 mg/l	BL dodavatele
Microorganisms in sewage treatment	10 mg/l	BL dodavatele
Freshwater sediment	1.52 mg/kg of dry substance of sediment	BL dodavatele
Sea sediments	0.152 mg/kg of dry substance of sediment	BL dodavatele
Soil (agricultural)	0.0699 mg/kg of dry substance of soil	BL dodavatele

Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine

Route of exposure	Value	Source
Freshwater environment	0.00434 mg/l	BL dodavatele
Water (intermittent release)	0.0434 mg/l	BL dodavatele
Marine water	0.000434 mg/l	BL dodavatele
Microorganisms in sewage treatment	3.84 mg/l	BL dodavatele
Sea sediments	43.4 mg/kg of dry substance of sediment	BL dodavatele
Freshwater sediment	434.02 mg/kg of dry substance of sediment	BL dodavatele
Soil (agricultural)	86.78 mg/kg bw	BL dodavatele

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Technical xylene (mixed with ethylbenzene)		
Route of exposure	Value	Source
Freshwater environment	0.327 mg/l	BL dodavatele
Marine water	0.327 mg/l	BL dodavatele
Soil (agricultural)	2.31 mg/kg of dry substance of soil	BL dodavatele
Food chain	0.327 mg/l	BL dodavatele
Microorganisms in sewage treatment	6.58 mg/l	BL dodavatele
Sea sediments	12.46 mg/kg of dry substance of sediment	BL dodavatele
Freshwater sediment	12.46 mg/kg of dry substance of sediment	BL dodavatele

8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. If exposure limits cannot be observed in this mode, suitable protection of airways must be used. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

Eye/face protection

Protective goggles or face shield (based on the nature of the work performed).

Skin protection

Hand protection: Protective gloves resistant to the product. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer. Other protection: protective workwear. Contaminated skin should be washed thoroughly.

Respiratory protection

Halfmask with a filter against organic vapours or a self-contained breathing apparatus as appropriate if exposure limit values of substances are exceeded or in a poorly ventilated environment.

Thermal hazard

Not available.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2. Collect spillage.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid
Colour	yellow, yellowish brown medium viscous liquid
Odour	po aminech
Melting point/freezing point	data not available
2-methylpropan-1-ol (CAS: 78-83-1)	<-90 °C (BL dodavatele)
Technical xylene (mixed with ethylbenzene)	-94.96-13.2 °C (BL dodavatele)
Boiling point or initial boiling point and boiling range	data not available
2-methylpropan-1-ol (CAS: 78-83-1)	108 °C (BL dodavatele)
Technical xylene (mixed with ethylbenzene)	136.2-144.5 °C (BL dodavatele)
Flammability	Flammable liquid of risk class II (ČSN 65 0201)
Technical xylene (mixed with ethylbenzene)	inflammable (BL dodavatele)
Lower and upper explosion limit	
bottom	0.8 % (for technical xylene)
2-methylpropan-1-ol (CAS: 78-83-1)	1.7 % (BL dodavatele)
Technical xylene (mixed with ethylbenzene)	0.8 % (BL dodavatele)
upper	10.9 % (for 2-methylpropan-1-ol)
2-methylpropan-1-ol (CAS: 78-83-1)	10.9 % (BL dodavatele)
Technical xylene (mixed with ethylbenzene)	7 % (BL dodavatele)
Flash point	36 °C (PND 67 3015)

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2-methylpropan-1-ol (CAS: 78-83-1)	31 °C (BL dodavatele)
Technical xylene (mixed with ethylbenzene)	18-32 °C (BL dodavatele)
Auto-ignition temperature	data not available
2-methylpropan-1-ol (CAS: 78-83-1)	400 °C (BL dodavatele)
Technical xylene (mixed with ethylbenzene)	432-528 °C (BL dodavatele)
Decomposition temperature	data not available
pH	reacts with water
2-methylpropan-1-ol (CAS: 78-83-1)	7 (undiluted at 20 °C) (BL dodavatele)
Kinematic viscosity	>20.5 mm ² /s at 40 °C
Solubility in water	not miscible
2-methylpropan-1-ol (CAS: 78-83-1)	70 g/l (20 °C) (BL dodavatele)
Technical xylene (mixed with ethylbenzene)	146-190.7 mg/l při 25 °C (BL dodavatele)
Partition coefficient n-octanol/water (log value)	logPow 1 till 3.2 (range of ingredients included)
2-methylpropan-1-ol (CAS: 78-83-1)	1 (BL dodavatele)
Vapour pressure	6.5 - 16 hPa at 20 °C (range of ingredients included)
2-methylpropan-1-ol (CAS: 78-83-1)	16 hPa at 20 °C (BL dodavatele)
Technical xylene (mixed with ethylbenzene)	650-944 Pa (BL dodavatele)
Density and/or relative density	
Density	0.915-0.935 g/cm ³ at 23 °C (manufacturer's methodology B5/TD1-5 (DIN 53217/3))
2-methylpropan-1-ol (CAS: 78-83-1)	0.8017 g/cm ³ at 20 °C (BL dodavatele)
Technical xylene (mixed with ethylbenzene)	0.862-0.88 g/cm ³ at 25 °C (BL dodavatele)
Relative vapour density	data not available
Particle characteristics	data not available
Form	liquid, yellow-brown medium viscous liquid insoluble in water, without mechanical impurities, with an amine smell
VOC content in product: category and subcategory of products - not classified	
9.2. Other information	
Ignition temperature	250 °C (PND 33 0371)
Content of organic solvents (VOC)	0.369 kg/kg (calculation)
Total organic carbon (TOC)	0.329 kg/kg (calculation)
Solid content (dry matter)	61 % volume (manufacturer's methodology B5/TD1-12B (ČSN EN ISO 3251))
Max. VOC content in the product in its ready to use condition	345 g/l (calculation)
flammability - temperature class: T3 (PND 33 0371).	

SECTION 10: Stability and reactivity

10.1. Reactivity

not available

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

Unknown.

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.

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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.

Acute toxicity

Based on available data the classification criteria are not met.

2-methylpropan-1-ol							
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Source
Oral	LD ₅₀	OECD 401	>2000 mg/kg		Rat (Rattus norvegicus)		BL dodavatel e
Inhalation (vapor)	LC ₅₀		>18.18 mg/l of air	14 days	Rat (Rattus norvegicus)		BL dodavatel e
Dermal	LD ₅₀	OECD 402	>2000 mg/kg		Rabbit		BL dodavatel e

Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine							
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Source
Oral	LD ₅₀		>2000 mg/kg bw		Rat (Rattus norvegicus)		BL dodavatel e
Dermal	LD ₅₀		>2000 mg/kg bw		Rat (Rattus norvegicus)		BL dodavatel e

Technical xylene (mixed with ethylbenzene)							
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Source
Oral	LD ₅₀		3523 mg/kg bw		Rat		ECHA
Inhalation (vapor)	LD ₅₀		6350 ppm	4 hours	Rat		ECHA
Dermal	LD ₅₀		12126 mg/kg bw		Rabbit		ECHA
Oral	NOAEL		150 mg/kg bw		Rat		ECHA
Oral	LOAEL		150 mg/kg bw		Rat		ECHA
Dermal	ATE		1100 mg/kg bw				
Inhalation (vapor)	ATE		11 mg/l				

Skin corrosion/irritation

Causes skin irritation.

2-methylpropan-1-ol					
Route of exposure	Result	Method	Exposure time	Species	Source
	Irritating	OECD 404		Rabbit	BL dodavatele

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Serious eye damage/irritation

Causes serious eye damage.

2-methylpropan-1-ol					
Route of exposure	Result	Method	Exposure time	Species	Source
Eye	Serious eye damage	OECD 405		Rabbit	BL dodavatele

Respiratory or skin sensitisation

May cause an allergic skin reaction.

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.

2-methylpropan-1-ol							
Effect	Parameter	Method	Value	Result	Species	Sex	Source
Effects on fertility	NOAEL		7.5 mg/l	Negative	Rat (Rattus norvegicus)		BL dodavatele
Developmental toxicity	NOAEL	OECD 414	10 mg/l	Negative	Rat (Rattus norvegicus)		BL dodavatele

Toxicity for specific target organ - single exposure

May cause respiratory irritation.

Toxicity for specific target organ - repeated exposure

May cause damage to the central nervous system through prolonged or repeated exposure.

Repeated dose toxicity

2-methylpropan-1-ol								
Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex	Source
Drinking water	NOAEL	Negative	OECD 408	1450 mg/kg	90 days	Rat (Rattus norvegicus)		BL dodavatele

Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex	Source
Oral	NOAEL			1000 mg/kg bw/day		Rat (Rattus norvegicus)		ECHA

Aspiration hazard

Based on available data the classification criteria are not met.

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11.2. Information on other hazards

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.

Other information

not available

SECTION 12: Ecological information

12.1. Toxicity

Toxic to aquatic life with long lasting effects.

Acute toxicity

2-methylpropan-1-ol						
Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀		>100 mg/l	96 hours	Fish (Pimephales promelas)		BL dodavatel e
EC ₅₀		>100 mg/l	48 hours	Daphnia (Daphnia pulex)		BL dodavatel e
EC ₅₀	OECD 201	>100 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)		BL dodavatel e
EC ₁₀	OECD 209	>100 mg/l	16 hours	Bacteria (Pseudomonas putida)		BL dodavatel e

Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine

Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀		7.07 mg/l	96 hours	Fish (Oncorhynchus mykiss)		ECHA
EC ₅₀		7.07 mg/l	48 hours	Aquatic invertebrates		ECHA
EC ₅₀		4.34 mg/l	72 hours	Algae and other aquatic plants		ECHA
EC ₅₀		384 mg/l	3 hours	Microorganisms (Photobacterium phosphoreum)		ECHA

Technical xylene (mixed with ethylbenzene)

Parameter	Method	Value	Exposure time	Species	Environment	Source
EC ₅₀		96 mg/l	24 hours	Microorganisms (Photobacterium phosphoreum)		ECHA
EC ₅₀		2.2 mg/l	73 hours	Algae (Selenastrum capricornutum)		ECHA
IC ₅₀		1 mg/l	24 hours	Aquatic invertebrates		ECHA
LC ₅₀		2.6 mg/l	4 days	Fish (Oncorhynchus mykiss)		ECHA

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Chronic toxicity

2-methylpropan-1-ol					
Parameter	Value	Exposure time	Species	Environment	Source
NOEC	20 mg/l	21 days	Daphnia (Daphnia magna)		BL dodavatele

Technical xylene (mixed with ethylbenzene)					
Parameter	Value	Exposure time	Species	Environment	Source
NOEC	960 µg/l		Aquatic invertebrates		ECHA
NOEC	1.3 mg/l	56 days	Fish (Oncorhynchus mykiss)		ECHA

12.2. Persistence and degradability

not available

Biodegradability

2-methylpropan-1-ol						
Parameter	Method	Value	Exposure time	Environment	Result	Source
	OECD 301D	>70 %	28 days		Easily biodegradable	BL dodavatele

12.3. Bioaccumulative potential

Not available.

2-methylpropan-1-ol			
Parameter	Value	Temperature [°C]	Source
Log Pow	1	25°C	BL dodavatele

12.4. Mobility in soil

Not available.

2-methylpropan-1-ol			
Parameter	Value	Result	Source
Koc	2.1	High	BL dodavatele

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

Not available.

SECTION 13: Disposal considerations

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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

08 01 11* waste paint and varnish containing organic solvents or other hazardous substances
08 01 13* sludges from paint or varnish containing organic solvents or other hazardous substances
20 01 27* paint, inks, adhesives and resins containing hazardous substances

Packaging waste type code

15 01 10* packaging containing residues of or contaminated by hazardous substances
(*) - Hazardous waste according to Directive 2008/98/EC on hazardous waste

SECTION 14: Transport information

14.1. UN number or ID number

UN 1866

14.2. UN proper shipping name

RESIN SOLUTION

14.3. Transport hazard class(es)

3 Flammable liquids

14.4. Packing group

III

14.5. Environmental hazards

Yes.

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

Additional information

Hazard identification No.

30

UN number

1866

Classification code

F1

Safety signs

3+ hazardous for the environment



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Road transport - ADR

Limited quantities	5 L
Excepted quantities	E1

Packaging

Packing instructions	P001, IBC03, LP01, R001
Special packing provisions	PP1
Mixed packing provisions	MP19

Portable tanks and bulk containers

Guidelines	T2
Special provisions	TP1

ADR tank

Tank code	LGBF
Vehicles for tank carriage	FL
Transport category	3
Tunnel restriction code	(D/E)

Special provision for

packages	V12
operation	S2

Railway transport - RID

Packaging

Packing instructions	P001, IBC03, LP01, R001
Special packing provisions	PP1
Mixed packing provisions	MP19

Portable tanks and bulk containers

Guidelines	T2
Special provisions	TP1

RID Tanks

Tank code	LGBF
Transport category	3

Special provision for

packages	W12
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Air transport - ICAO/IATA

Packaging instructions for limited amount	Y344
Packaging instructions passenger	355
Cargo packaging instructions	366

Marine transport - IMDG

EmS (emergency plan)	F-E, S-E
MFAG	300

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

not available

SECTION 16: Other information

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

H226	Flammable liquid and vapour.
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H304	May be fatal if swallowed and enters airways.
H312+H332	Harmful in contact with skin or if inhaled.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
H373	May cause damage to the central nervous system through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
Guidelines for safe handling used in the safety data sheet	
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260	Do not breathe vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P314	Get medical advice/attention if you feel unwell.
P370+P378	In case of fire: Use foam (alcohol resistant), carbon dioxide, a spray mist, powder to extinguish.
P391	Collect spillage.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container to by handing over to a person authorized to dispose of waste or a site designated by the town.

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

Acute Tox.	Acute toxicity
ADR	Agreement concerning the international carriage of dangerous goods by road
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
Asp. Tox.	Aspiration hazard
ATE	Acute toxicity estimate
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 ₁₀	Concentration of a substance when it is affected 10 % of the population
EC ₅₀	Concentration of a substance when it is affected 50 % of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency Response Procedures for Ships Carrying Dangerous Goods
EU	European Union
EuPCS	European Product Categorisation System
Eye Dam.	Serious eye damage
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquid
IATA	International Air Transport Association

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IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
IC ₅₀	Concentration causing 50% blockade
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
LOAEL	Lowest observed adverse effect level
log K _{ow}	Octanol-water partition coefficient
NOAEL	No observed adverse effect level
NOEC	No observed effect concentration
OEL	Occupational Exposure Limits
PBT	Persistent, bioaccumulative and toxic
PMT	Persistent, mobile and toxic
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulation concerning the International Carriage of Dangerous Goods by Rail
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitization
STOT RE	Specific target organ toxicity - repeated exposure
STOT SE	Specific target organ toxicity - single exposure
UN number	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
vPvM	Very persistent and very mobile

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

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 19 October 2017. Changes were made in sections 1, 2, 3, 7, 9, 11, 12 and 16.

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.