

S1002 Synthetic Glossy Clear Varnish SYNTECOL LAK

Creation date	10th July 2018	Version	2.0
Revision date	28th February 2022		

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

- 1.1. Product identifier**
 Substance / mixture S1002 Synthetic Glossy Clear Varnish SYNTECOL LAK
 Number S1002-A-C0000
 UFI J2R4-YJR0-Y00H-J00F
 Other mixture names S1002 Syntetický lesklý bezbarvý lak SYNTECOL LAK
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**
Mixture's intended use
 SYNTECOL LAK S1002 is designed for exterior and interior glossy coatings of cleaned and surface-treated wooden and metal objects.
Mixture uses advised against
 The product should not be used in ways other than those referred in Section 1.
Main intended use
 PC-PNT-2 Paints/coatings - Decorative
- 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 Reg No CZ49444964
 Phone +420 572527111
 E-mail colorlak@colorlak.cz
 Web address www.colorlak.cz
- Competent person responsible for the safety data sheet**
 Name Ing. Veronika Chytilová
 E-mail 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 Sens. 1A, H317
 STOT SE 3, H336
 STOT RE 2, H373 (central nervous system, respiratory tract (inhalation))
 Aquatic Chronic 3, H412

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

May cause drowsiness or dizziness. May cause damage to the central nervous system, the respiratory tract (inhalation) through prolonged or repeated exposure. May cause an allergic skin reaction. Harmful to aquatic life with long lasting effects.

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2.2. Label elements

Hazard pictogram



Signal word

Warning

Hazardous substances

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)
cobalt bis(2-ethylhexanoate)

Hazard statements

H226	Flammable liquid and vapour.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
H373	May cause damage to the central nervous system, the respiratory tract (inhalation) through prolonged or repeated exposure.
H412	Harmful 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.
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.
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.

Supplemental information

EUH066	Repeated exposure may cause skin dryness or cracking.
Density	0,92-0,94 g/cm ³ at 23 °C (manufacturer's methodology B5/TD1-5 (ČSN EN ISO 2811-2))
VOC	0,370 kg/kg
TOC	0,310 kg/kg
Dry matter	45 % volume
VOC limit value	cat. A (e) SB: 400 g/l
Max. VOC content in the product in its ready to use condition	345 g/l

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

SYNTECOL LAK S1002 is a dispersion of inorganic substances in a solution of alkyd resins in organic solvents with the addition of a desiccant. 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
EC: 919-857-5 Registration number: 01-2119463258-33	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics	17-25	Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H336 EUH066	2
CAS: 64742-82-1 EC: 919-446-0 Registration number: 01-2119458049-33	hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	8-9	Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H336 STOT RE 1, H372 (central nervous system, respiratory tract (inhalation)) Aquatic Chronic 2, H411 EUH066	2
Index: 649-327-00-6 EC: 918-481-9 Registration number: 01-2119457273-39	hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics	≤1,3	Asp. Tox. 1, H304 EUH066	2
EC: 926-141-6 Registration number: 01-2119456620-43	hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclic, <2% aromatics	0,74-1,1	Asp. Tox. 1, H304 EUH066	2
CAS: 22464-99-9 EC: 245-018-1 Registration number: 01-2119979088-21	2-ethylhexanoic acid, zirconium salt	≤0,50	Repr. 2, H361fd	
CAS: 136-51-6 EC: 205-249-0 Registration number: 01-2119978297-19	Calcium bis(2-ethylhexanoate)	≤0,33	Eye Dam. 1, H318 Repr. 2, H361d	
CAS: 136-52-7 EC: 205-250-6 Registration number: 01-2119524678-29	cobalt bis(2-ethylhexanoate)	≤0,18	Skin Sens. 1A, H317 Eye Irrit. 2, H319 Repr. 1B, H360Fd Aquatic Acute 1, H400 (M=1) Aquatic Chronic 3, H412	1
Index: 616-014-00-0 CAS: 96-29-7 EC: 202-496-6 Registration number: 01-2119539477-28	2-butanone oxime	<0,10	Acute Tox. 3, H301 Acute Tox. 4, H312 Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Dam. 1, H318 STOT SE 3, H336 Carc. 1B, H350 STOT SE 1, H370 (upper respiratory tract) STOT RE 2, H373 (blood system) Specific concentration limit: ATE Dermálně = 1100 mg/kg TH ATE Orálně = 100 mg/kg TH	

Notes

- The use of the substance is restricted by Annex XVII of REACH Regulation
- 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.

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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. Rinsing should continue at least for 10 minutes.

If swallowed

Rinse out the mouth with clean water. In the event of issues, find medical help.

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

If inhaled

Cough, headache. May cause drowsiness or dizziness.

If on skin

May cause an allergic skin reaction.

If in eyes

Not expected.

If swallowed

Irritation, nausea.

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

Prevent contamination of the soil and entering surface or ground water.

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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

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. 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.

Storage class 3A - Flammable liquids (flash point below 55 °C)
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.

DNEL

2-butanone oxime

Workers / consumers	Route of exposure	Value	Effect	Determining method	Source
Workers (0)	Inhalation	9 mg/m ³	Systemic chronic effects		BL dodavatele
Workers (0)	Inhalation	3.33 mg/m ³	Local chronic effects		BL dodavatele
Workers (0)	Dermal	1.3 mg/kg bw/day	Systemic chronic effects		BL dodavatele
Consumers (0)	Inhalation	2.7 mg/m ³	Systemic chronic effects		BL dodavatele
Consumers (0)	Inhalation	2 mg/m ³	Local chronic effects		BL dodavatele
Consumers (0)	Dermal	0.78 mg/kg bw/day	Systemic chronic effects		BL dodavatele

SAFETY DATA SHEET

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

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2-ethylhexanoic acid, zirconium salt

Workers / consumers	Route of exposure	Value	Effect	Determining method	Source
Workers	Inhalation	32.97 mg/m ³	Systemic chronic effects		BL dodavatele
Workers	Dermal	6.49 mg/kg bw/day	Systemic chronic effects		BL dodavatele
Consumers	Inhalation	8.13 mg/kg bw/day	Systemic chronic effects		BL dodavatele
Consumers	Dermal	3.25 mg/kg bw/day	Systemic chronic effects		BL dodavatele
Consumers	Oral	4.51 mg/kg bw/day	Systemic chronic effects		BL dodavatele

Calcium bis(2-ethylhexanoate)

Workers / consumers	Route of exposure	Value	Effect	Determining method	Source
Workers	Inhalation	39.98 mg/m ³	Systemic chronic effects		BL dodavatele
Workers	Dermal	5.7 mg/kg bw/day	Systemic chronic effects		BL dodavatele
Consumers	Dermal	2.83 mg/kg bw/day	Systemic chronic effects		BL dodavatele
Consumers	Inhalation	9.86 mg/m ³	Systemic chronic effects		BL dodavatele
Consumers	Oral	2.83 mg/kg bw/day	Systemic chronic effects		BL dodavatele

cobalt bis(2-ethylhexanoate)

Workers / consumers	Route of exposure	Value	Effect	Determining method	Source
Workers	Inhalation	0.2351 mg/m ³	Local chronic effects		BL dodavatele
Consumers	Inhalation	0.037 mg/m ³	Local chronic effects		BL dodavatele
Consumers	Inhalation	0.175 mg/m ³	Systemic chronic effects		BL dodavatele

hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics

Workers / consumers	Route of exposure	Value	Effect	Determining method	Source
Workers	Dermal	208 mg/kg bw/day	Systemic chronic effects		BL dodavatele
Workers	Inhalation	871 mg/m ³	Systemic chronic effects		BL dodavatele
Consumers	Dermal	125 mg/kg bw/day	Systemic chronic effects		BL dodavatele
Consumers	Inhalation	185 mg/m ³	Systemic chronic effects		BL dodavatele
Consumers	Oral	125 mg/m ³	Systemic chronic effects		BL dodavatele

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics

Workers / consumers	Route of exposure	Value	Effect	Determining method	Source
Workers	Inhalation	1500 mg/m ³	Systemic chronic effects		ECHA
Workers	Dermal	300 mg/kg bw/day	Systemic chronic effects		ECHA
Consumers	Inhalation	900 mg/m ³	Systemic chronic effects		ECHA
Consumers	Dermal	300 mg/kg bw/day	Systemic chronic effects		ECHA
Consumers	Oral	300 mg/kg bw/day	Systemic chronic effects		ECHA

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hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Workers / consumers	Route of exposure	Value	Effect	Determining method	Source
Workers	Inhalation	330 mg/m ³	Systemic chronic effects		BL dodavatele
Workers	Dermal	44 mg/kg bw/day	Systemic chronic effects		BL dodavatele
Consumers	Inhalation	71 mg/m ³	Systemic chronic effects		BL dodavatele
Consumers	Dermal	26 mg/kg bw/day	Systemic chronic effects		BL dodavatele
Consumers	Oral	26 mg/kg bw/day	Systemic chronic effects		BL dodavatele

PNEC

2-butanone oxime

Route of exposure	Value	Determining method
Freshwater environment	0.256 mg/l	
Water (intermittent release)	0.118 mg/l	
Microorganisms in wastewater treatment plants	177 mg/l	

2-ethylhexanoic acid, zirconium salt

Route of exposure	Value	Determining method
Freshwater environment	0.36 mg/l	
Seawater	0.036 mg/l	
Soil (agricultural)	1.06 mg/kg of dry substance	
Microorganisms in wastewater treatment plants	71.7 mg/l	
Freshwater sediment	6.37 mg/kg of dry substance of sediment	
Sea sediments	0.637 mg/kg of dry substance of sediment	

Calcium bis(2-ethylhexanoate)

Route of exposure	Value	Determining method
Freshwater environment	0.36 mg/l	
Seawater	0.036 mg/l	
Microorganisms in wastewater treatment plants	71.7 mg/l	
Freshwater sediment	6.37 mg/kg of dry substance of sediment	
Sea sediments	0.637 mg/kg of dry substance of sediment	
Soil (agricultural)	1.06 mg/kg of dry substance	

cobalt bis(2-ethylhexanoate)

Route of exposure	Value	Determining method
Freshwater environment	0.62 µg/l	
Seawater	2.36 µg/l	
Microorganisms in wastewater treatment plants	0.37 mg/l	
Freshwater sediment	53.8 mg/kg of dry substance of sediment	
Sea sediments	69.8 mg/kg of dry substance of sediment	

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cobalt bis(2-ethylhexanoate)

Route of exposure	Value	Determining method
Soil (agricultural)	10.9 mg/kg of dry substance of soil	

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

It is not needed.

Skin protection

Hand protection: Protective gloves resistant to the product. 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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid
Colour	colourless, yellowish, milky cloudy
Odour	after organic solvents
Melting point/freezing point	data not available
2-butanone oxime (CAS: 96-29-7)	-29 °C (BL dodavatele)
hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics	<-20 °C (BL dodavatele)
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) (CAS: 64742-82-1)	-73 °C (BL dodavatele)
Boiling point or initial boiling point and boiling range	data not available
2-butanone oxime (CAS: 96-29-7)	152 °C (BL dodavatele)
hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics	160-245 °C (BL dodavatele)
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) (CAS: 64742-82-1)	155-194 °C (BL dodavatele)
Flammability	Flammable liquid of risk class II (ČSN 65 0201)
Lower and upper explosion limit	
bottom	0,7 % (for Hydrocarbons)
2-butanone oxime (CAS: 96-29-7)	1,9 % (BL dodavatele)
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) (CAS: 64742-82-1)	0,7 % (BL dodavatele)
upper	50 % (pro Butanone oxime)
2-butanone oxime (CAS: 96-29-7)	12,3 % (BL dodavatele)
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) (CAS: 64742-82-1)	6 % (BL dodavatele)
Flash point	35 °C (ČSN EN ISO 3679)
2-butanone oxime (CAS: 96-29-7)	62 °C (BL dodavatele)
hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics	>61 °C (BL dodavatele)
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) (CAS: 64742-82-1)	43 °C (BL dodavatele)
imine compound	78 °C (BL dodavatele)
Auto-ignition temperature	data not available

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hydrocarbons, C10-C13, n-alkanes, isolkanes, cyclics, <2% aromatics	>200 °C (BL dodavatele)
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) (CAS: 64742-82-1)	242 °C (BL dodavatele)
Decomposition temperature	data not available
pH	non-soluble (in water)
imine compound	8,5 (12% solution) (BL dodavatele)
Kinematic viscosity	>20,5 mm²/s at 40 °C
Viscosity - flow time	120-230 s (manufacturer's methodology B5/TD1-33 (ČSN EN ISO 2431))
Solubility in water	not miscible
2-butanone oxime (CAS: 96-29-7)	114 g/l při 20°C (BL dodavatele)
imine compound	částečně rozpustný (BL dodavatele)
Partition coefficient n-octanol/water (log value)	logPow 0,63 to more than 4 (range of substances contained)
Vapour pressure	0,37 till 20 hPa at 20 °C (range of substances contained)
2-butanone oxime (CAS: 96-29-7)	1,41 hPa at 20 °C (BL dodavatele)
hydrocarbons, C10-C13, n-alkanes, isolkanes, cyclics, <2% aromatics	<0,1 kPa at 20 °C (BL dodavatele)
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) (CAS: 64742-82-1)	0,2 kPa at 20 °C (BL dodavatele)
Density and/or relative density	
Density	0,92-0,94 g/cm³ at 23 °C (manufacturer's methodology B5/TD1-5 (ČSN EN ISO 2811-2))
2-butanone oxime (CAS: 96-29-7)	0,92 g/cm³ at 20 °C (BL dodavatele)
hydrocarbons, C10-C13, n-alkanes, isolkanes, cyclics, <2% aromatics	0,751-0,851 g/cm³ at 15 °C (BL dodavatele)
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) (CAS: 64742-82-1)	0,79 g/cm³ at 15 °C (BL dodavatele)
imine compound	0,88 g/cm³ at 20-23 °C (BL dodavatele)
Form	liquid, yellowish milky turbid liquid, without mechanical impurities, scaling up to 3% by weight of filling and sediment is allowed
imine compound	liquid (BL dodavatele)
9.2. Other information	
Combustion temperature	40 °C (PND 65 6212)
Ignition temperature	250 °C (PND 33 0371)
Vapour density	> 1 (air = 1)
Content of organic solvents (VOC)	0,370 kg/kg (calculation)
Total organic carbon (TOC)	0,310 kg/kg (calculation)
Solid content (dry matter)	45 % volume (manufacturer's methodology B5/TD1-12B (ČSN EN ISO 3251))
VOC limit value	cat. A (e) SB: 400 g/l
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.

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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.

Acute toxicity

Based on available data the classification criteria are not met.

2-butanone oxime

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex	Source
Oral	NOEL		100 mg/kg		Rat (Rattus norvegicus)		BL dodavatel e
Inhalation (vapor)	LC50		>4.83 mg/l	4 hour	Rat (Rattus norvegicus)		BL dodavatel e
Dermal	LD50		>0.2-2 ml/kg		Rabbit		BL dodavatel e
Dermal	LD50		>2000 mg/kg		Rat (Rattus norvegicus)		BL dodavatel e
Dermal	ATE		1100 mg/kg bw				
Oral	ATE		100 mg/kg bw				

2-ethylhexanoic acid, zirconium salt

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex	Source
Oral	LD50	OECD 401	>5000 mg/kg		Rat (Rattus norvegicus)	F	BL dodavatel e
Dermal	LD50	OECD 402	>5000 mg/kg bw		Rat (Rattus norvegicus)	F/M	BL dodavatel e

Calcium bis(2-ethylhexanoate)

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex	Source
Oral	LD50	OECD 420	2043 mg/kg		Rat (Rattus norvegicus)	F	BL dodavatel e
Dermal	LD50	OECD 402	>5000 mg/kg		Rat (Rattus norvegicus)	F/M	BL dodavatel e

SAFETY DATA SHEET

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

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cobalt bis(2-ethylhexanoate)

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex	Source
Oral	LD50	OECD 425	3129 mg/kg		Rat (Rattus norvegicus)	F	BL dodavatel e
Dermal	LD50	OECD 402	>2000 mg/kg		Rat (Rattus norvegicus)	F/M	BL dodavatel e

hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex	Source
Oral	LD50		>6000 mg/kg		Rat (Rattus norvegicus)		BL dodavatel e
	EC50		5 mg/l of air	72 hour	Rat		ECHA
Dermal	LD50		>5000 mg/kg	72 hour	Rabbit		BL dodavatel e
Inhalation	LC50		>4951 mg/m ³	4 hour	Rat		BL dodavatel e
Oral	LD50		>5000 mg/kg		Rat		BL dodavatel e

hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclic, <2% aromatics

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex	Source
Inhalation (vapor)	LC50		>5000 mg/m ³	8 hour	Rat		BL-dodavatel
Dermal	LD50		>5000 mg/kg		Rabbit		BL-dodavatel

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex	Source
Oral	LD50		5 000 - 15 000 mg/kg bw		Rat		ECHA
Inhalation	LC50		5 mg/l of air	8 hour	Rat		ECHA
Dermal	LD50		2 000 mg/kg bw		Rat		ECHA

hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex	Source
Oral	LD50		15000 mg/kg bw		Rat		ECHA
Inhalation	LD50		13.1 mg/l of air	4 hour	Rat		ECHA
Dermal	LD50		4 ml/kg bw		Rat		ECHA
Inhalation	NOAEL		300 ppm		Rat		ECHA
Dermal	NOAEL		495 mg/kg bw/day		Rat		ECHA

Skin corrosion/irritation

Based on available data the classification criteria are not met.

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Serious eye damage/irritation

Based on available data the classification criteria are not met.

2-butanone oxime

Route of exposure	Result	Method	Time of exposure	Species	Source
	Serious eye damage			Rabbit	BL dodavatele

Calcium bis(2-ethylhexanoate)

Route of exposure	Result	Method	Time of exposure	Species	Source
Eye	Serious eye damage	OECD 405		Rabbit	BL dodavatele

cobalt bis(2-ethylhexanoate)

Route of exposure	Result	Method	Time of exposure	Species	Source
	Irritating				BL dodavatele

Sensitization

2-butanone oxime

Route of exposure	Result	Time of exposure	Species	Sex	Source
	Sensitizing		Guinea-pig (Cavia aperea f. porcellus)		BL dodavatele

Respiratory or skin sensitisation

May cause an allergic skin reaction.

cobalt bis(2-ethylhexanoate)

Route of exposure	Result	Method	Time of exposure	Species	Sex	Source
Dermal	Sensitizing	OECD 429		Mouse		BL dodavatele

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-ethylhexanoic acid, zirconium salt

Effect	Parameter	Method	Value	Time of exposure	Result	Species	Sex	Source
Effects on fertility	NOAEL		300 mg/kg bw			Rat (Rattus norvegicus)	F/M	BL dodavatele
Developmental toxicity	NOAEL		100 mg/kg bw	21 day		Rat (Rattus norvegicus)		BL dodavatele

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Calcium bis(2-ethylhexanoate)

Effect	Parameter	Method	Value	Time of exposure	Result	Species	Sex	Source
Developmental toxicity	NOAEL		100 mg/kg bw			Rat (Rattus norvegicus)		BL dodavatele

cobalt bis(2-ethylhexanoate)

Effect	Parameter	Method	Value	Time of exposure	Result	Species	Sex	Source
Effects on fertility	NOAEL	OECD 408	30 mg/kg bw	90 day		Rat (Rattus norvegicus)	F/M	BL dodavatele
Developmental toxicity	NOAEL	OECD 414	100 mg/kg bw	13 day		Rat (Rattus norvegicus)	F/M	BL dodavatele

Toxicity for specific target organ - single exposure

May cause drowsiness or dizziness.

Toxicity for specific target organ - repeated exposure

May cause damage to the central nervous system, the respiratory tract (inhalation) through prolonged or repeated exposure.

Repeated dose toxicity

2-butanone oxime

Route of exposure	Parameter	Result	Method	Value	Time of exposure	Species	Sex	Source
Oral	NOAEL			25-125 mg/kg bw/day		Rat		echa
Inhalation	NOAEC			90 mg/m ³ of air		Rat		echa

2-ethylhexanoic acid, zirconium salt

Route of exposure	Parameter	Result	Method	Value	Time of exposure	Species	Sex	Source
Oral	NOAEL			71 mg/kg	13 week	Rat (Rattus norvegicus)	F	BL dodavatele
Oral	LOAEL			360 mg/kg	13 week	Rat (Rattus norvegicus)	F	BL dodavatele
Oral	NOAEL			61 mg/kg	13 week	Rat (Rattus norvegicus)	M	BL dodavatele
Oral	LOAEL			303 mg/kg	13 week	Rat (Rattus norvegicus)	M	BL dodavatele
Oral	NOAEL			180 mg/kg	13 week	Mouse	M	BL dodavatele
Oral	NOAEL			205 mg/kg	13 week	Mouse	F	BL dodavatele
Inhalation (dust/mist)			OECD 412	>100.8 mg/m ³	30 day (6 hour/day, 5 days/week)	Rat (Rattus norvegicus)		BL dodavatele

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2-ethylhexanoic acid, zirconium salt

Route of exposure	Parameter	Result	Method	Value	Time of exposure	Species	Sex	Source
Inhalation (dust/mist)			OECD 413	>15.4 mg/m ³	60 day (6 hour/day, 5 days/week)	Rat (Rattus norvegicus)		BL dodavatel e

Calcium bis(2-ethylhexanoate)

Route of exposure	Parameter	Result	Method	Value	Time of exposure	Species	Sex	Source
Oral	NOAEL			61 mg/kg	13 week	Rat (Rattus norvegicus)	F/M	BL dodavatel e
Oral	LOAEL			303 mg/kg	13 week	Rat (Rattus norvegicus)	F/M	BL dodavatel e

cobalt bis(2-ethylhexanoate)

Route of exposure	Parameter	Result	Method	Value	Time of exposure	Species	Sex	Source
Oral	NOAEL		OECD 408	3 mg/kg	90 day	Rat (Rattus norvegicus)	F/M	BL dodavatel e
Oral	LOAEL			5 mg/kg	14 day	Rat (Rattus norvegicus)	F/M	BL dodavatel e
Oral	LOAEL		OECD 422	5 mg/kg	48 day	Rat (Rattus norvegicus)	F/M	BL dodavatel e
Inhalation (aerosols)			OECD 413	0.61 mg/m ³	14 week (5 days/week)	Mouse	F/M	BL dodavatel e

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics

Route of exposure	Parameter	Result	Method	Value	Time of exposure	Species	Sex	Source
Oral	NOAEL			1 000 - 5 000 mg/kg bw/day		Rat		ECHA
Inhalation	NOAEL			200 ppm		Rat		ECHA

Aspiration hazard

Based on available data the classification criteria are not met.

11.2. Information on other hazards

not available

SECTION 12: Ecological information

12.1. Toxicity

Acute toxicity

Harmful to aquatic life with long lasting effects.

2-butanone oxime

Parameter	Method	Value	Time of exposure	Species	Environment	Source
LC50		>100 mg/l	96 hour	Fishes (Oryzias latipes)		BL dodavatel e

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2-butanone oxime

Parameter	Method	Value	Time of exposure	Species	Environment	Source
EC50		201 mg/l	48 hour	Daphnia (Daphnia magna)		BL dodavatel
EC50		83 mg/l	72 hour	Algae (Desmodesmus subspicatus)		BL dodavatel
EC50		281 mg/l	17 hour	Microorganisms (Pseudomonas putida)		BL dodavatel

2-ethylhexanoic acid, zirconium salt

Parameter	Method	Value	Time of exposure	Species	Environment	Source
LC50	OECD 203	>100 mg/l	96 hour	Fishes (Oryzias latipes)		BL dodavatel

Calcium bis(2-ethylhexanoate)

Parameter	Method	Value	Time of exposure	Species	Environment	Source
EC50	OECD 203	>100 mg/l	96 hour	Fishes (Oryzias latipes)		BL dodavatel
EC50		112.1 mg/l	17 hour	Microorganisms (Pseudomonas putida)		BL dodavatel

hydrocarbons, C10-C13, n-alkanes, isolkanes, cyclics, <2% aromatics

Parameter	Method	Value	Time of exposure	Species	Environment	Source
LL 0		1000 mg/l	96 hour	Fishes (Oncorhynchus mykiss)		BL dodavatel
EL 0		1000 mg/l	48 hour	Daphnia (Daphnia magna)		BL dodavatel
EL 0		1000 mg/l	72 hour	Algae (Pseudokirchneriella subcapitata)		BL dodavatel

hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclic, <2% aromatics

Parameter	Method	Value	Time of exposure	Species	Environment	Source
EL0		1000 mg/l	48 hour	Invertebrates (Daphnia magna)		BL dodavatel
EL0		1000 mg/l	72 hour	Algae (Selenastrum capricornutum)		BL dodavatel
LL0		1000 mg/l	96 hour	Fishes (Oncorhynchus mykiss)		BL dodavatel

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics

Parameter	Method	Value	Time of exposure	Species	Environment	Source
EL 50		1 g/l	72 hour	Algae and other aquatic plants		ECHA

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Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics

Parameter	Method	Value	Time of exposure	Species	Environment	Source
EL 50		1 g/l	24 hour	Aquatic invertebrates		ECHA
LL 50		1 g/l	24 hour	Fishes (Oncorhynchus mykiss)		ECHA

hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Parameter	Method	Value	Time of exposure	Species	Environment	Source
LC50	OECD 203	10-30 mg/l	96 hour	Fishes (Oncorhynchus mykiss)		BL dodavatel
EC50	OECD 202	10-22 mg/l	48 hour	Daphnia (Daphnia magna)		BL dodavatel
ErC50	OECD 201	4.1 mg/l	72 hour	Algae (Pseudokirchneriella subcapitata)		BL dodavatel

Chronic toxicity

2-butanone oxime

Parameter	Method	Value	Time of exposure	Species	Environment	Source
NOEC		>100 mg/l	14 day	Fishes (Oryzias latipes)		BL dodavatel

2-ethylhexanoic acid, zirconium salt

Parameter	Method	Value	Time of exposure	Species	Environment	Source
NOEC	OECD 211	25 mg/l	21 day	Daphnia (Daphnia magna)		BL dodavatel

Calcium bis(2-ethylhexanoate)

Parameter	Method	Value	Time of exposure	Species	Environment	Source
NOEC	OECD 211	25 mg/l	21 day	Daphnia (Daphnia magna)		BL dodavatel

cobalt bis(2-ethylhexanoate)

Parameter	Method	Value	Time of exposure	Species	Environment	Source
LC50		41.6 mg/l	28 day	Fishes (Cyprinodon variegatus)		BL dodavatel
EC 10		0.0197 mg/l	7 day	Daphnia (Ceriodaphnia dubia)	Freshwater	BL dodavatel

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Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics

Parameter	Method	Value	Time of exposure	Species	Environment	Source
NOELR		230 µg/l	21 day	Aquatic invertebrates		ECHA
NOELR		131 µg/l	28 day	Fishes (Oncorhynchus mykiss)		ECHA

12.2. Persistence and degradability

Biodegradability

2-butanone oxime

Parameter	Method	Value	Time of exposure	Environment	Result	Source
	OECD 302B		18 day	Activated sludge	Biodegradable	BL dodavatele

hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics

Parameter	Method	Value	Time of exposure	Environment	Result	Source
Degradovaný podíl		80	28 day	Freshwater	Easily biodegradable	BL dodavatele

hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Parameter	Method	Value	Time of exposure	Environment	Result	Source
	OECD 301F				Easily biodegradable	BL dodavatele

not available

12.3. Bioaccumulative potential

2-butanone oxime

Parameter	Value	Time of exposure	Species	Environment	Surrounding temperature [°C]	Source
BCF	0.5-0.6	42 day	Fishes (Cyprinus carpio)			BL dodavatele
Log Pow	0.63					BL dodavatele

cobalt bis(2-ethylhexanoate)

Parameter	Value	Time of exposure	Species	Environment	Surrounding temperature [°C]	Source
BCF	180-4000					BL dodavatele

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hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclic, <2% aromatics

Parameter	Value	Time of exposure	Species	Environment	Surrounding temperature [°C]	Source
	69	28 day		Freshwater		BL-dodavatel

Not available.

12.4. Mobility in soil

2-butanone oxime

Parameter	Value	Environment	Surrounding temperature	Source
Log Koc	0.55			BL dodavatele

Not available.

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

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 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

No.

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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

1263

Classification code

F1

Safety signs

3



Road transport - ADR

Special provisions

163, 640E, 650, 367

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, TP29

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

Special provisions

163, 640E, 650, 367

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, TP29

RID Tanks

Tank code

LGBF

Transport category

0

Special provision for

packages

W 12

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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	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.

Restrictions pursuant to Annex XVII of Regulation (EC) No. 1907/2006 (REACH), as amended

cobalt bis(2-ethylhexanoate)

Restriction	Conditions of restriction
30	Without prejudice to the other parts of this Annex the following shall apply to entries 28 to 30: 1. Shall not be placed on the market, or used, — as substances, — as constituents of other substances, or, — in mixtures, for supply to the general public when the individual concentration in the substance or mixture is equal to or greater than: — either the relevant specific concentration limit specified in Part 3 of Annex VI to Regulation (EC) No 1272/2008, or, — the relevant generic concentration limit specified in Part 3 of Annex I of Regulation (EC) No 1272/2008. Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that the packaging of such substances and mixtures is marked visibly, legibly and indelibly as follows: "Restricted to professional users". 2. By way of derogation, paragraph 1 shall not apply to: (a) medicinal or veterinary products as defined by Directive 2001/82/EC and Directive 2001/83/EC; (b) cosmetic products as defined by Directive 76/768/EEC; (c) the following fuels and oil products: — motor fuels which are covered by Directive 98/70/EC, — mineral oil products intended for use as fuel in mobile or fixed combustion plants, — fuels sold in closed systems (e.g. liquid gas bottles); (d) artists' paints covered by Regulation (EC) No 1272/2008; (e) the substances listed in Appendix 11, column 1, for the applications or uses listed in Appendix 11, column 2. Where a date is specified in column 2 of Appendix 11, the derogation shall apply until the said date. (f) devices covered by Regulation (EU) 2017/745.

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.
H301	Toxic if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.

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H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H350	May cause cancer.
H360Fd	May damage fertility. Suspected of damaging the unborn child.
H361d	Suspected of damaging the unborn child.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H370	Causes damage to upper respiratory tract.
H372	Causes damage to the central nervous system, the respiratory tract (inhalation) through prolonged or repeated exposure.
H373	May cause damage to the central nervous system, the respiratory tract (inhalation) through prolonged or repeated exposure.
H373	May cause damage to blood system through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
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

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

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. 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	Identification code for each substance listed in EINECS
EC50	Concentration of a substance when it is affected 50% of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EL50	Effective Loading for 50% of the tested organisms
EmS	Emergency plan
EU	European Union
EuPCS	European Product Categorisation System
IATA	International Air Transport Association

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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
LC50	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD50	Lethal dose of a substance in which it can be expected death of 50% of the population
LL50	Lethal Loading for 50% of tested organisms
LOAEL	Lowest observed adverse effect level
log Kow	Octanol-water partition coefficient
MARPOL	International Convention for the Prevention of Pollution from Ships
NOAEC	No observed adverse effect concentration
NOAEL	No observed adverse effect level
NOEC	No observed effect concentration
NOEL	No observed effect level
NOELR	No Observed Effect Loading Rate
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
Aquatic Acute	Hazardous to the aquatic environment
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
Asp. Tox.	Aspiration hazard
Carc.	Carcinogenicity
Eye Dam.	Serious eye damage
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquid
Repr.	Reproductive toxicity
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitization
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

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)



SAFETY DATA SHEET

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



S1002 Synthetic Glossy Clear Varnish SYNTECOL LAK

Creation date	10th July 2018	Version	2.0
Revision date	28th February 2022		

The version 2.0 replaces the SDS version from 10 July 2018. 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.