

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

## S 1035 LAZUROL® TOPDECOR

Creation date	25th June 2012	Version	4.0
Revision date	18th June 2021		

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

- 1.1. Product identifier**  
Substance / mixture S 1035 LAZUROL® TOPDECOR mixture  
UFI AYRV-C039-Y00K-77XW  
Other mixture names S 1035 LAZUROL® TOPDECOR BÁZE
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**  
**Mixture's intended use**  
Thin coating wood stain  
**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 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.

Skin Sens. 1A, H317  
Aquatic Chronic 3, H412

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

#### Most serious adverse effects on human health and the environment

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

reaction mass bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

#### Hazard statements

H317	May cause an allergic skin reaction.
H412	Harmful to aquatic life with long lasting effects.

#### Precautionary statements

P102	Keep out of reach of children.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves/eye protection.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
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.

#### Supplemental information

EUH066	Repeated exposure may cause skin dryness or cracking.
Density	0,86-0,88 g/cm <sup>3</sup> at 23 °C
VOC	0,59-0,61 kg/kg
TOC	0,50-0,52 kg/kg
Dry matter	33 % volume
VOC limit value	cat. A (h) SB: 750 g/l
Max. VOC content in the product in its ready to use condition	550 g/l

### 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

Solution of special alkyd resin in organic solvents with the addition of drying oils, waxes, UV filters and dispersion of transparent iron oxides.

**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: 649-327-00-6 EC: 918-481-9 Registration number: 01-2119457273-39	Hydrocarbons, C10 – C13, n-alkanes, isoalkanes, cyclics, < 2 % aromatics	59	Asp. Tox. 1, H304 EUH066	1, 2
Registration number: 01-2119491304-40	reaction mass bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	1	Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	

##### Notes

- Note P: The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (Einecs No 200-753-7). When the substance is not classified as a carcinogen at least the precautionary statements (P102-)P260- P262-P301 + P310-P331 shall apply. This note applies only to certain complex oil-derived substances in Part 3.
- Fulfilled Note P

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 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.

##### 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

Not expected.

##### If on skin

May cause an allergic skin reaction.

##### If in eyes

Not expected.

##### If swallowed

Irritation, nausea.

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### **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. 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.

### **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.

### **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**

##### 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. 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).

Storage class

12 - Other non-combustible liquids

Storage temperature

min 5 °C, max 25 °C

#### **7.3. Specific end use(s)**

For the substance hydrocarbons, C10 - C13, n-alkanes, isoalkanes, cyclic, <2% aromatics, its use in coatings for industrial, professional use and for consumer use was assessed during its registration (PC 9a). The only hazardous property requiring classification of the substance is aspiration hazard Asp. Tox.1, H304. There are no safe dose or concentration limits for substances with this property, therefore no quantitative risk assessment is performed. The reaction mass of pentamethyl-piperidyl sebacate substance was assessed for its use in coatings for industrial, professional and consumer use (PC 9a). Hazardous skin sensitization property Skin Sens.1A (H317) has been evaluated for potential risks. The safe use of the product is incorporated into the information contained in the safety data sheet.

### **SECTION 8: Exposure controls/personal protection**

#### **8.1. Control parameters**

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

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### DNEL

reaction mass bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

Workers / consumers	Route of exposure	Value	Effect	Determining method
Workers	Dermal	2.5 mg/kg	Systemic acute effects	
Workers	Inhalation	2.35 mg/m <sup>3</sup>	Systemic acute effects	
Workers	Dermal	2.5 mg/kg	Systemic chronic effects	
Workers	Inhalation	2.35 mg/m <sup>3</sup>	Systemic chronic effects	
Consumers	Dermal	1.25 mg/kg	Systemic acute effects	
Consumers	Inhalation	0.58 mg/m <sup>3</sup>	Systemic acute effects	
Consumers	Dermal	1.25 mg/kg	Systemic chronic effects	
Consumers	Inhalation	0.58 mg/m <sup>3</sup>	Systemic chronic effects	
Consumers	Oral	1.25 mg/kg	Systemic chronic effects	

### 8.2. Exposure controls

Conditions of safe use of the registered coating composition components are specified in the body of Safety Data Sheets.

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

Eye protection is not necessary under normal handling. When working with the risk of being exposed to liquid, use protective goggles or face shield (based on the nature of the work performed).

#### 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 – nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinyl chloride (0.7 mm) 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

Respiratory protection is not required under normal handling. 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

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

## SECTION 9: Physical and chemical properties

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

Physical state	liquid
Colour	according to the shade
Odour	typical aromatic
Melting point/freezing point	data not available

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Boiling point or initial boiling point and boiling range	data not available		
Flammability	data not available		
Lower and upper explosion limit	data not available		
Flash point	>62 °C		
Auto-ignition temperature	data not available		
Decomposition temperature	data not available		
pH	non-soluble (in water)		
Kinematic viscosity	>20,5 mm <sup>2</sup> /s at 40 °C		
Solubility in water	data not available		
Solubility in fats	data not available		
Partition coefficient n-octanol/water (log value)	data not available		
Vapour pressure	data not available		
Density and/or relative density			
Density	0,86-0,88 g/cm <sup>3</sup> at 23 °C		
Form	Medium viscous liquid without mechanical impurities		
<b>9.2. Other information</b>			
Evaporation rate	data not available		
Oxidising properties	The product has no oxidizing properties.		
Content of organic solvents (VOC)	0,59-0,61 kg/kg		
Total organic carbon (TOC)	0,50-0,52 kg/kg		
Solid content (dry matter)	33 % volume		
VOC limit value	cat. A (h) SB: 750 g/l		
Max. VOC content in the product in its ready to use condition	550 g/l		

### 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 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.

### 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**

Based on available data the classification criteria are not met.

Hydrocarbons, C10 – C13, n-alkanes, isoalkanes, cyclics, &lt; 2 % aromatics

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex
Oral	LD <sub>50</sub>	OECD 401	>5000 mg/kg bw		Rat (Rattus norvegicus)	
Dermal	LD <sub>50</sub>	OECD 402	>2000 mg/kg bw		Rabbit	F/M
Inhalation	LC <sub>50</sub>	OECD 403	>5000 mg/m <sup>3</sup> of air	8 hour	Rat (Rattus norvegicus)	

reaction mass bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex
Oral	LD <sub>50</sub>		3230 mg/kg bw/day		Rat (Rattus norvegicus)	

**Skin corrosion/irritation**

Based on available data the classification criteria are not met. Prolonged or repeated contact with the product causes skin degreasing and drying.

**Serious eye damage/irritation**

Based on available data the classification criteria are not met.

**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.

**Toxicity for specific target organ - single exposure**

Based on available data the classification criteria are not met.

**Toxicity for specific target organ - repeated exposure**

Based on available data the classification criteria are not met.

**Aspiration hazard**

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. Based on available data the classification criteria are not met.



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### 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.

reaction mass bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

Parameter	Value	Time of exposure	Species	Environment
LC <sub>50</sub>	7.9 mg/l	96 hour	Fishes (Oncorhynchus mykiss)	
EC <sub>50</sub>	20 mg/l	24 hour	Aquatic invertebrates (Daphnia magna)	
EC <sub>50</sub>	1.68 mg/l	72 hour	Algae and other aquatic plants (Desmodesmus subspicatus)	
EC <sub>50</sub>	>100 mg/l	3 hour	Microorganisms (Photobacterium phosphoreum)	

### 12.2. Persistence and degradability

Data for mixture not available.

### 12.3. Bioaccumulative potential

Data for mixture not available.

### 12.4. Mobility in soil

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

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.

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### Waste management legislation

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

### Waste type code

08 01 11 waste paint and varnish containing organic solvents or other 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

not subject to transport regulations

### 14.2. UN proper shipping name

not relevant

### 14.3. Transport hazard class(es)

not relevant

### 14.4. Packing group

not relevant

### 14.5. Environmental hazards

The product is not environmentally hazardous.

### 14.6. Special precautions for user

Reference in the Sections 4 to 8. The product is transported in ordinary and covered means of transport, protected against the weather, shocks and falls. Always transport in closed cans that are in a vertical position and properly secured.

### 14.7. Maritime transport in bulk according to IMO instruments

not relevant

## 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

The chemical safety assessments for hydrocarbons, C10 - C13, n-alkanes, isoalkanes, cyclic <2% aromatics and reaction mass of pentamethylpiperidyl sebacate were performed during their registration. The conclusions of the assessment for the use of the substances in coatings are incorporated in this safety data sheet.

## SECTION 16: Other information

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

H304	May be fatal if swallowed and enters airways.
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

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H412 Harmful to aquatic life with long lasting effects.

### Guidelines for safe handling used in the safety data sheet

P102 Keep out of reach of children.  
 P280 Wear protective gloves/eye protection.  
 P302+P352 IF ON SKIN: Wash with plenty of water and soap.  
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
 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.  
 P270 Do not eat, drink or smoke when using this product.

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

EUH066 Repeated exposure may cause skin dryness or cracking.

### 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  
 EC<sub>50</sub> Concentration of a substance when it is affected 50% of the population  
 EINECS European Inventory of Existing Commercial Chemical Substances  
 EmS Emergency plan  
 EU European Union  
 EuPCS European Product Categorisation System  
 IATA International Air Transport Association  
 IBC International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals  
 ICAO International Civil Aviation Organization  
 IMDG International Maritime Dangerous Goods  
 INCI International Nomenclature of Cosmetic Ingredients  
 ISO International Organization for Standardization  
 IUPAC International Union of Pure and Applied Chemistry  
 LC<sub>50</sub> Lethal concentration of a substance in which it can be expected death of 50% of the population  
 LD<sub>50</sub> Lethal dose of a substance in which it can be expected death of 50% of the population  
 log K<sub>ow</sub> Octanol-water partition coefficient  
 MARPOL International Convention for the Prevention of Pollution from Ships  
 OEL Occupational Exposure Limits  
 PBT Persistent, Bioaccumulative and Toxic  
 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

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UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bioaccumulative

Aquatic Acute	Hazardous to the aquatic environment
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
Asp. Tox.	Aspiration hazard
Skin Sens.	Skin sensitization

### 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)

Version 4.0 replaces the version 3.0. of 28.03.2018. Overall revision of SDS sections acc. to Commission Regulation (EU) 2020/878.

### 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.