

# Safety data sheet

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 PRODUCT IDENTIFIER

Product name

PARKETOLIT 1554B

### 1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

Relevant identified uses

Adhesive for wood flooring - component B

Uses advised against

No information.

### 1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Supplier

MITOL, tovarna lepil, d.o.o., Sežana  
Partizanska c. 78  
6210 Sežana, Slovenia  
+386 5 73 12 300 (8:00-16:00)  
lilijana.kocjan@mitol.si

### 1.4 EMERGENCY TELEPHONE NUMBER

Emergency

112

Supplier

+386 5 73 12 300 (8:00-16:00)



<https://my.chemius.net/p/G0uOrl/en/pd/en>

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Classification according to Regulation (EC) No 1272/2008 (CLP)

Acute Tox. 4; H302 Harmful if swallowed.  
Skin Corr. 1B; H314 Causes severe skin burns and eye damage.  
Skin Sens. 1; H317 May cause an allergic skin reaction.  
Eye Dam. 1; H318 Causes serious eye damage.  
STOT RE 2; H373 May cause damage to organs through prolonged or repeated exposure.

### 2.2 LABEL ELEMENTS

Labelling according to Regulation (EC) No 1272/2008 [CLP]



**Signal word: DANGER**

H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H373 May cause damage to organs through prolonged or repeated exposure.  
P102 Keep out of reach of children.  
P260 Do not breathe mist/vapours.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER or doctor/physician.  
P501 Dispose of contents/container in accordance with national regulation.

Contains:

benzyl alcohol  
4,4'-methylenebis(cyclohexylamine)  
Methyleneoxide, polymer with benzenamine, hydrogenated  
2,4,6-tris(dimethylaminomethyl)phenol

### 2.3 OTHER HAZARDS

PBT/vPvB

No information.

Endocrine disrupting properties



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No information.

Additional information

No information.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 SUBSTANCES

For mixtures see 3.2.

### 3.2 MIXTURES

Name	CAS EC Index Reach	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Conc. Limits	Notes for substances
benzyl alcohol	100-51-6 202-859-9 603-057-00-5 01-2119492630-38	10-30	Acute Tox. 4; H302 Eye Irrit. 2; H319 Acute Tox. 4; H332	/	/
4,4'-methylenebis(cyclohexylamine)	1761-71-3 217-168-8 - 01-2119541673-38	>10	Acute Tox. 4; H302 Skin Corr. 1B; H314 Skin Sens. 1; H317 Eye Dam. 1; H318 STOT RE 2; H373	/	/
Methyleneoxide, polymer with benzenamine, hydrogenated	135108-88-2 603-894-6 - 01-2119983522-33	5-15	Acute Tox. 4; H302 Skin Corr. 1C; H314 Skin Sens. 1; H317 STOT RE 2; H373 Aquatic Chronic 3; H412	/	/
2,4,6-tris(dimethylaminomethyl)phenol	90-72-2 202-013-9 603-069-00-0 01-2119560597-27	5-10	Skin Corr. 1C; H314 Eye Dam. 1; H318	/	/

## SECTION 4: FIRST AID MEASURES

### 4.1 DESCRIPTION OF FIRST AID MEASURES

General notes

When in doubt or if feeling unwell seek medical assistance. Show the safety data sheet and label to the physician. Never give anything by mouth to an unconscious person. Place patient in recovery position and ensure airway patency.

Following inhalation

Remove patient to fresh air - move out of dangerous area. If symptoms develop and persist, seek medical attention. If victim is not breathing give artificial respiration. Seek medical help immediately.

Following skin contact

Immediately remove contaminated clothing. Wash affected skin areas immediately with plenty of water and soap. Immediately obtain professional medical help!

Following eye contact

Immediately flush eyes with running water, keeping eyelids apart. After 5 minutes of rinsing, remove contact lenses, if present, and continue rinsing. Consult a physician immediately!



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## Following ingestion

Do not induce vomiting! Rinse mouth with water and drink a glass of water by sips! Immediately consult a doctor. Show the physician the safety data sheet or label.

## **4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED**

### Following inhalation

Symptoms include: headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, unconsciousness. Negative effects can affect liver, kidney, and central nervous system.

### Following skin contact

Redness, ulcers, pain. May cause sensitisation by skin contact (symptoms: itching, redness, rashes).

### Following eye contact

Contact with eyes can cause severe injuries. Discomfort or pain, excessive blinking, lacrimation and redness, swelling of the conjunctiva.

### Following ingestion

Harmful to health. May cause nausea/vomiting and diarrhea. May cause abdominal discomfort. Causes corrosions in mouth, throat, digestive tract.

## **4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED**

No information.

## **SECTION 5: FIREFIGHTING MEASURES**

### **5.1 EXTINGUISHING MEDIA**

#### Suitable extinguishing media

Carbon dioxide. Dry chemical powder. Water spray. Alcohol resistant foam.

#### Unsuitable extinguishing media

Full water jet.

### **5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE**

#### Hazardous combustion products

In case of heating harmful vapours/gases can be generated. In the event of fire the following can be generated: carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>). In the event of fire the following is released: nitrogen oxides (NO<sub>x</sub>).

### **5.3 ADVICE FOR FIREFIGHTERS**

#### Protective actions

In case of fire do not breathe fumes/gases. Cool containers at risk with water spray. If possible remove containers from endangered area.

#### Special protective equipment for fire-fighters

Firefighters should wear appropriate protective clothing for firefighters (including helmets, protective boots and gloves) (EN 469) and self-contained breathing apparatus (SCBA) with a full face-piece (EN 137).

#### Additional information

Contaminated firefighting water must be disposed of in accordance with the regulations; do not allow to reach the sewage system. Contaminated firefighting water and fire residues must be disposed of in accordance with the local regulations.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

### **6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES**

#### For non-emergency personnel

##### Protective equipment

Use personal protective equipment (Section 8).

##### Precautionary measures

Ensure adequate ventilation.

##### Emergency procedures

Prevent access to unprotected personnel. Prevent access to unauthorised personnel. Do not use open fire and keep away all sources of ignition. No action shall be taken involving any personal risk or without suitable training. Do not breathe vapour or mist. Avoid contact with skin and eyes. Avoid contact with spilled product or contaminated surfaces.

##### For emergency responders

Use personal protective equipment.

### **6.2 ENVIRONMENTAL PRECAUTIONS**

Do not allow product to reach water/drains/sewage systems or permeable soil. If accidental large entry into water or ground occurs, inform responsible authorities.

### **6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP**

#### For containment

Dam the spillage.

#### For cleaning up



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Stop leak if without risk. Absorb product (with inert material), collect it in special container and dispose it to a licensed hazardous-waste disposal contractor.

## OTHER INFORMATION

No information.

## **6.4 REFERENCE TO OTHER SECTIONS**

See also sections 8 and 13.

## **SECTION 7: HANDLING AND STORAGE**

### **7.1 PRECAUTIONS FOR SAFE HANDLING**

#### Protective measures

#### Measures to prevent fire

Ensure adequate ventilation. Keep away from sources of ignition - no smoking. Take precautionary measures against static discharges.

#### Measures to prevent aerosol and dust generation

No information.

#### Measures to protect the environment

No information.

#### Other measures

No information.

#### Advice on general occupational hygiene

Use good personal hygiene practices – wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Do not breathe vapours/mist. Avoid contact with skin, eyes and clothes. Wear suitable protective equipment; see Section 8. Remove contaminated clothes and wash them before reuse. Consider measures required in Section 8 of this safety data sheet. Refer to instructions on label and regulations for safety and health at work.

### **7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES**

#### Technical measures and storage conditions

Store in accordance with local regulations. Keep in cool and well ventilated area. Keep away from food, drink and animal feeding stuffs. Keep away from oxidizers, strong alkalis and acids. Storage temperature +5°C to 35°C.

#### Packaging materials

No information.

#### Requirements for storage rooms and vessels

Close opened containers after use. Put the containers upright to prevent from leaking.

#### Storage class

No information.

#### Further information on storage conditions

No information.

### **7.3 SPECIFIC END USE(S)**

#### Recommendations

No information.

#### Industrial sector specific solutions

No information.

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **8.1 CONTROL PARAMETERS**

#### Occupational Exposure limit values

No information.

#### Information on monitoring procedures

BS EN 14042:2003 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. BS EN 689:2018 Workplace exposure. Measurement of exposure by inhalation to chemical agents. Strategy for testing compliance with occupational exposure limit values. BS EN 482:2021 Workplace exposure. Procedures for the determination of the concentration of chemical agents. Basic performance requirements.

#### DNEL/DMEL values

#### For product

No information.

#### For components

No information.

#### PNEC values

#### For product



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No information.

## For components

No information.

## 8.2 EXPOSURE CONTROLS

### Appropriate engineering control

#### Substance/mixture related measures to prevent exposure during identified uses

Use good personal hygiene practices – wash hands at breaks and when done working with material. Avoid contact with eyes and skin. Do not breathe vapours/aerosols. Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke while working. Keep away from direct sun-light or other heat sources and sources of ignition.

#### Structural measures to prevent exposure

No information.

#### Organisational measures to prevent exposure

No information.

#### Technical measures to prevent exposure

Provide good ventilation and local exhaust in areas with increased concentration.

#### Personal protective equipment

##### Eye and face protection

Tight fitting protective goggles (EN 166).

##### Hand protection

Protective gloves (EN 374). Observe the manufacturer's instructions regarding the use, storage, maintenance and replacement of gloves. In case of damage or at the first signs of wear and tear, change the gloves immediately.

##### Appropriate materials

##### Skin protection

Cotton protective clothing and shoes that cover the entire foot (EN ISO 20345).

##### Respiratory protection

Wear suitable protective breathing mask (BS EN 136) with filter A2-P2 (BS EN 14387).

##### Thermal hazards

No information.

##### Environmental exposure controls

#### Substance/mixture related measures to prevent exposure

No information.

#### Instruction measures to prevent exposure

No information.

#### Organisational measures to prevent exposure

No information.

#### Technical measures to prevent exposure

No information.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

#### Physical state

liquid

#### Colour

brown

#### Odour

amine like like ammonia

#### Important health, safety and environmental information

<b>Odour threshold</b>	No information.
<b>Melting point/Freezing point</b>	No information.
<b>Boiling point or initial boiling point and boiling range</b>	No information.
<b>Flammability</b>	No information.
<b>Lower and upper explosion limit</b>	No information.
<b>Flash point</b>	No information.



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<b>Auto-ignition temperature</b>	No information.
<b>Decomposition temperature</b>	No information.
<b>pH</b>	No information.
<b>Viscosity</b>	No information.
<b>Solubility</b>	No information.
<b>Partition coefficient</b>	No information.
<b>Vapour pressure</b>	No information.
<b>Density and/or relative density</b>	No information.
<b>Relative vapour density</b>	No information.
<b>Particle characteristics</b>	No information.

### 9.2 OTHER INFORMATION

<b>Explosive properties</b>	No information.
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## SECTION 10: STABILITY AND REACTIVITY

### 10.1 REACTIVITY

No information.

### 10.2 CHEMICAL STABILITY

Product is stable under normal conditions of use, recommended handling and storage conditions.

### 10.3 POSSIBILITY OF HAZARDOUS REACTIONS

No information.

### 10.4 CONDITIONS TO AVOID

No special precautions required. Consider the directions for use and storage. Does not decompose if used and stored as instructed. Avoid heating.

### 10.5 INCOMPATIBLE MATERIALS

Strong oxidising agents.  
Strong acids.  
Strong bases.

### 10.6 HAZARDOUS DECOMPOSITION PRODUCTS

Under normal use conditions no hazardous decomposition products are expected. In case of fire/explosion vapours/gases that pose a health hazard are released. Carbon dioxide; Carbon monoxide.  
Nitrogen oxides.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 INFORMATION ON HAZARD CLASSES AS DEFINED IN REGULATION (EC) NO 1272/2008

(a) Acute toxicity

For components

Name	Exposure route	Type	Species	Time	value	Method	Remark
benzyl alcohol	oral	LD <sub>50</sub>	rat	/	1230 mg/kg	/	/
benzyl alcohol	inhalation	LC <sub>50</sub>	rat	4 h	> 4.178 mg/l	OECD 403	/
benzyl alcohol	dermal	LD <sub>50</sub>	rabbit	/	2000 mg/kg	/	/
4,4'-methylenebis(cyclohexylamine)	oral	LD <sub>50</sub>	rat	/	625 mg/kg	/	/
4,4'-methylenebis(cyclohexylamine)	dermal	LD <sub>50</sub>	rabbit	/	2110 mg/kg	/	/



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Name	Exposure route	Type	Species	Time	value	Method	Remark
Methyleneo xide, polymer with benzenamin e, hydrogenat ed	oral	LD <sub>50</sub>	rat	/	367 mg/kg	/	/
Methyleneo xide, polymer with benzenamin e, hydrogenat ed	dermal	LD <sub>50</sub>	rabbit	/	> 2000 mg/kg /	/	/
2,4,6-tris(dimethyl aminomethyl)phenol	oral	LD <sub>50</sub>	rat	/	2169 mg/kg	/	/

### Additional information

Harmful if swallowed.

### (b) Skin corrosion/irritation

No information.

### Additional information

Corrosive.

### (c) Serious eye damage/irritation

No information.

### Additional information

Causes serious eye damage.

### (d) Respiratory or skin sensitisation

No information.

### Additional information

May cause an allergic skin reaction.

### (e) (Germ cell) mutagenicity

No information.

### (f) Carcinogenicity

No information.

### (g) Reproductive toxicity

No information.

### Summary of evaluation of the CMR properties

No information.

### (h) STOT-single exposure

No information.

### (i) STOT-repeated exposure

No information.

### Additional information

May cause damage to organs through prolonged or repeated exposure.

### (j) Aspiration hazard

No information.

### Symptoms related to the physical, chemical and toxicological characteristics

No information.

### Interactive effects



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No information.

### 11.2 INFORMATION ON OTHER HAZARDS

Endocrine disrupting properties

No information.

Other information

No information.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 TOXICITY

Acute (short-term) toxicity

For components

Name	Type	value	Exposure time	Species	organism	Method	Remark
benzyl alcohol	LC <sub>50</sub>	460 mg/L	96 h	fish	<i>Pimephales promelas</i>	/	/
benzyl alcohol	IC <sub>50</sub>	700 mg/L	72 h	algae	/	/	/
4,4'-methylenebis(cyclohexylamine)	LC <sub>50</sub>	> 100 mg/L	96 h	fish	<i>Leuciscus idus</i>	/	/
4,4'-methylenebis(cyclohexylamine)	LC0	46 mg/L	96 h	fish	<i>Leuciscus idus</i>	/	/
4,4'-methylenebis(cyclohexylamine)	EC <sub>50</sub>	6.84 mg/L	48 h	crustacea	<i>Daphnia magna</i>	/	/
4,4'-methylenebis(cyclohexylamine)	EC <sub>50</sub>	140 - 200 mg/L	72 h	algae	/	/	/
Methyleneoxide, polymer with benzenamine, hydrogenated	LC <sub>50</sub>	63 mg/L	96 h	fish	<i>Poecilia reticulata</i>	/	/
Methyleneoxide, polymer with benzenamine, hydrogenated	EC <sub>50</sub>	15.4 mg/L	48 h	crustacea	<i>Daphnia magna</i>	/	/





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Name	Type	value	Exposure time	Species	organism	Method	Remark
Methyleneoxide, polymer with benzenamine, hydrogenated	ErC <sub>50</sub>	43.9 mg/L	72 h	algae	/	/	/
Methyleneoxide, polymer with benzenamine, hydrogenated	EC <sub>50</sub>	187 mg/L	3 h	bacteria	Activated sludge	/	/
2,4,6-tris(dimethylaminomethyl)phenol	LC <sub>50</sub>	222 mg/L	24 h	fish	<i>Oncorhynchus mykiss</i>	/	/
2,4,6-tris(dimethylaminomethyl)phenol	LC <sub>100</sub>	240 mg/L	96 h	fish	<i>Oncorhynchus mykiss</i>	/	/
2,4,6-tris(dimethylaminomethyl)phenol	LC <sub>0</sub>	180 mg/L	96 h	fish	<i>Oncorhynchus mykiss</i>	/	/
2,4,6-tris(dimethylaminomethyl)phenol	EC <sub>50</sub>	718 mg/L	96 h	crustacea	<i>Palaemonetes</i>	/	/
2,4,6-tris(dimethylaminomethyl)phenol	EC <sub>100</sub>	1000 mg/L	96 h	crustacea	Neopanope	/	/
2,4,6-tris(dimethylaminomethyl)phenol	EC <sub>0</sub>	750 mg/L	96 h	crustacea	Neopanope	/	/
2,4,6-tris(dimethylaminomethyl)phenol	EC <sub>50</sub>	84 mg/L	72 h	algae	<i>Scenedesmus subspicatus</i>	/	/
2,4,6-tris(dimethylaminomethyl)phenol	NOEC	6.25 mg/L	/	algae	/	/	/

### Chronic (long-term) toxicity

No information.

### 12.2 PERSISTENCE AND DEGRADABILITY

#### Abiotic degradation, physical- and photo-chemical elimination

No information.



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## Biodegradation

No information.

## 12.3 BIOACCUMULATIVE POTENTIAL

### Partition coefficient

No information.

### Bioconcentration factor (BCF)

No information.

## 12.4 MOBILITY IN SOIL

### Known or predicted distribution to environmental compartments

No information.

### Surface tension

No information.

### Adsorption/Desorption

No information.

## 12.5 RESULTS OF PBT AND VPVB ASSESSMENT

No evaluation.

## 12.6 ENDOCRINE DISRUPTING PROPERTIES

No information.

## 12.7 OTHER ADVERSE EFFECTS

No information.

## 12.8 ADDITIONAL INFORMATION

### For product

Do not allow to reach ground water, water courses or sewage system.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 WASTE TREATMENT METHODS

#### Product / Packaging disposal

#### Waste chemical

Add appropriate amount B component to component A and mix well. The reaction is exothermic. Leave at least 1 day - mixture should become hard. Disposal must be made according to official regulations: deliver it to authorised collector/remover/transformer of hazardous waste.

#### Waste codes / waste designations according to LoW

No information.

#### Packaging

Deliver completely emptied containers to approved waste disposal authorities.

#### Waste codes / waste designations according to LoW

No information.

#### Waste treatment-relevant information

No information.

#### Sewage disposal-relevant information

No information.

#### Other disposal recommendations





No information.

## SECTION 14: TRANSPORT INFORMATION

ADR/RID	IMDG	IATA	ADN
<b>14.1 UN number or ID number</b>			
UN 2735	UN 2735	UN 2735	UN 2735
<b>14.2 UN proper shipping name</b>			



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ADR/RID	IMDG	IATA	ADN
POLYAMINES, LIQUID, CORROSIVE, N.O.S. (4,4'-methylenebis(cyclohexylamine), Methyleneoxide, polymer with benzenamine, hydrogenated)	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (4,4'-methylenebis(cyclohexylamine), Methyleneoxide, polymer with benzenamine, hydrogenated)	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (4,4'-methylenebis(cyclohexylamine), Methyleneoxide, polymer with benzenamine, hydrogenated)	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (4,4'-methylenebis(cyclohexylamine), Methyleneoxide, polymer with benzenamine, hydrogenated)
<b>14.3 Transport hazard class(es)</b>			
8	8	8	8
			
<b>14.4 Packing group</b>			
III	III	III	III
<b>14.5 Environmental hazards</b>			
NO	NO	NO	NO
<b>14.6 Special precautions for user</b>			
Limited quantities 5 L Special provisions 274 Packing Instructions P001, IBC03, LP01, R001 Transport category 3 Tunnel restriction code (E)	Limited quantities 5 L EmS F-A, S-B	Limited Quantity, Packing Instructions (Ltd Qty, Pkg Inst) Y841 Limited Quantity, Maximum Net Quantity/Package (Ltd Qty, Max Net Qty/Pkg) 1 L Packing Instructions (Pkg Inst) 852 Maximum Net Quantity/Package (Max Net Qty/Pkg) 5 L Cargo Aircraft Only, Packing Instructions (CAO, Pkg Inst) 856 Cargo Aircraft Only, Maximum Net Quantity/Package (CAO, Max Net Qty/Pkg) 60 L Excepted quantities E1 ERG code 8L	Limited quantities 5 L
<b>14.7 Maritime transport in bulk according to IMO instruments</b>			
	Goods may not be carried in bulk in bulk containers, containers or vehicles.		

## SECTION 15: REGULATORY INFORMATION

### 15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE



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- Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (including last amendment Commission Regulation (EU) 2020/878)

- Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

Information according 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline)

not applicable

Regulation EC 648/2004 on detergents

No information.

Special instructions

Observe the regulations on employment and protection against dangerous substances for young people, pregnant women and nursing mothers.

### 15.2 CHEMICAL SAFETY ASSESSMENT

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

## SECTION 16: OTHER INFORMATION

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Indication of changes

2.2 Label elements 8.2 Exposure controls

Key literature references and sources for data

No information.

Abbreviations and acronyms



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ATE - Acute Toxicity Estimate  
 ADR - Agreement concerning the International Carriage of Dangerous Goods by Road  
 ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
 CEN - European Committee for Standardisation  
 C&L - Classification and Labelling  
 CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008  
 CAS# - Chemical Abstracts Service number  
 CMR - Carcinogen, Mutagen, or Reproductive Toxicant  
 CSA - Chemical Safety Assessment  
 CSR - Chemical Safety Report  
 DMEL - Derived Minimal Effect Level  
 DNEL - Derived No Effect Level  
 DPD - Dangerous Preparations Directive 1999/45/EC  
 DSD - Dangerous Substances Directive 67/548/EEC  
 DU - Downstream User  
 EC - European Community  
 ECHA - European Chemicals Agency  
 EC-Number - EINECS and ELINCS Number (see also EINECS and ELINCS)  
 EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway)  
 EEC - European Economic Community  
 EINECS - European Inventory of Existing Commercial Substances  
 ELINCS - European List of notified Chemical Substances  
 EN - European Standard  
 EQS - Environmental Quality Standard  
 EU - European Union  
 Euphrac - European Phrase Catalogue  
 EWC - European Waste Catalogue (replaced by LoW – see below)  
 GES - Generic Exposure Scenario  
 GHS - Globally Harmonized System  
 IATA - International Air Transport Association  
 ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air  
 IMDG - International Maritime Dangerous Goods  
 IMSBC - International Maritime Solid Bulk Cargoes  
 IT - Information Technology  
 IUCLID - International Uniform Chemical Information Database  
 IUPAC - International Union for Pure Applied Chemistry  
 JRC - Joint Research Centre  
 Kow - octanol-water partition coefficient  
 LC50 - Lethal Concentration to 50 % of a test population  
 LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)  
 LE - Legal Entity  
 LoW - List of Wastes (see <http://ec.europa.eu/environment/waste/framework/list.htm>)  
 LR - Lead Registrant  
 M/I - Manufacturer / Importer  
 MS - Member States  
 MSDS - Material Safety Data Sheet  
 OC - Operational Conditions  
 OECD - Organization for Economic Co-operation and Development  
 OEL - Occupational Exposure Limit  
 OJ - Official Journal  
 OR - Only Representative  
 OSHA - European Agency for Safety and Health at work  
 PBT - Persistent, Bioaccumulative and Toxic substance  
 PEC - Predicted Effect Concentration  
 PNEC(s) - Predicted No Effect Concentration(s)  
 PPE - Personal Protection Equipment  
 (Q)SAR - Qualitative Structure Activity Relationship  
 REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006  
 RID - Regulations concerning the International Carriage of Dangerous Goods by Rail  
 RIP - REACH Implementation Project  
 RMM - Risk Management Measure  
 SCBA - Self-Contained Breathing Apparatus  
 SDS - Safety data sheet  
 SIEF - Substance Information Exchange Forum  
 SME - Small and Medium sized Enterprises  
 STOT - Specific Target Organ Toxicity  
 (STOT) RE - Repeated Exposure  
 (STOT) SE - Single Exposure  
 SVHC - Substances of Very High Concern  
 UN - United Nations  
 vPvB - Very Persistent and Very Bioaccumulative

## List of relevant H phrases

H302 Harmful if swallowed.  
 H314 Causes severe skin burns and eye damage.  
 H317 May cause an allergic skin reaction.  
 H318 Causes serious eye damage.  
 H319 Causes serious eye irritation.  
 H332 Harmful if inhaled.  
 H373 May cause damage to organs through prolonged or repeated exposure.  
 H412 Harmful to aquatic life with long lasting effects.



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