

## Safety data sheet

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

#### 1.1 PRODUCT IDENTIFIER

Product name

MITOPUR ZMA5

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

Relevant identified uses

Grout, component A

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/oGa53H/en/pd/en>

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

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

Aquatic Chronic 3; H412 Harmful to aquatic life with long lasting effects.

#### 2.2 LABEL ELEMENTS

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

H412 Harmful to aquatic life with long lasting effects.  
P102 Keep out of reach of children.  
P273 Avoid release to the environment.  
P501 Dispose of contents/container in accordance with national regulation.

#### 2.3 OTHER HAZARDS

PBT/vPvB

No information.

Endocrine disrupting properties

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
propane-1,2-diol, propoxylated	25322-69-4 - -	<10	Acute Tox. 4; H302	/	/

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Name	CAS EC Index Reach	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Conc. Limits	Notes for substances
<b>bis(isopropyl)na phthalene</b>	38640-62-9 254-052-6 - 01-2119565150- 48	<1	Asp. Tox. 1; H304 / Aquatic Chronic 1; H410; M = 1		/

### 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.

##### Following inhalation

Remove patient to fresh air - move out of dangerous area. If symptoms develop and persist, seek medical attention.

##### Following skin contact

Take off all contaminated clothing. Wash affected skin areas immediately with plenty of water and soap. If symptoms develop and persist, seek medical attention.

##### 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. If irritation persists, seek professional medical attention.

##### Following ingestion

Do not induce vomiting! Rinse mouth thoroughly with water. In case of doubt or if feeling unwell seek medical help. Show the physician the safety data sheet or label.

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

##### Following inhalation

Excessive exposure to spray mist, fog, or vapours may cause respiratory irritation. Coughing, sneezing, nasal discharge, labored breathing.

##### Following skin contact

Prolonged and repeated exposure may cause redness, itching and cracking of the skin in sensitive people.

##### Following eye contact

Contact with eyes can cause irritation (redness, tearing, pain).

##### Following ingestion

May cause nausea/vomiting and diarrhea.

#### 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 a fire toxic gases can be generated; do not inhale gases/smoke.

#### 5.3 ADVICE FOR FIREFIGHTERS

##### Protective actions

In case of fire or heating do not breathe fumes/vapours.

##### 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.

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### SECTION 6: ACCIDENTAL RELEASE MEASURES

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#### 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 breathe vapour or mist.

##### 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

No information.

##### For cleaning up

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.

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### SECTION 7: HANDLING AND STORAGE

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#### 7.1 PRECAUTIONS FOR SAFE HANDLING

##### Protective measures

##### Measures to prevent fire

Ensure adequate ventilation.

##### Measures to prevent aerosol and dust generation

No information.

##### Measures to protect the environment

Avoid release to the environment.

##### 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 and eyes. Remove contaminated clothes and wash them before reuse. 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

Keep in well closed containers. Keep in cool and well ventilated area. Keep away from food, drink and animal feeding stuffs.

##### Packaging materials

No information.

##### Requirements for storage rooms and vessels

No information.

##### Storage class

No information.

##### Further information on storage conditions

No information.

#### 7.3 SPECIFIC END USE(S)

##### Recommendations

No information.

##### Industrial sector specific solutions

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No information.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 CONTROL PARAMETERS

#### Occupational Exposure limit values

Name	mg/m <sup>3</sup>	ml/m <sup>3</sup>	Short-term value mg/m <sup>3</sup>	Short-term value ml/m <sup>3</sup>	Remark	Biological Tolerance Values
Orthophosphoric acid (7664-38-2)	1	/	2	/	/	/

#### 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

Name	Type	Exposure route	exp. frequency	Remark	value
bis(isopropyl)naphthalene	Consumer	oral	long term	/	2.1 mg/kg
bis(isopropyl)naphthalene	Consumer	dermal	long term	/	2.1 mg/kg
bis(isopropyl)naphthalene	Worker	dermal	long term	/	4.3 mg/kg
bis(isopropyl)naphthalene	Consumer	inhalation	long term	/	7.4 mg/m <sup>3</sup>
bis(isopropyl)naphthalene	Worker	inhalation	long term	/	30 mg/m <sup>3</sup>

#### PNEC values

##### For product

No information.

##### For components

Name	Exposure route	Remark	value
bis(isopropyl)naphthalene	water treatment plant	/	0.15 mg/L
bis(isopropyl)naphthalene	fresh water	/	0.00026 mg/L
bis(isopropyl)naphthalene	marine water	/	2.6E-5 mg/L
bis(isopropyl)naphthalene	fresh water sediment	/	0.94 mg/kg
bis(isopropyl)naphthalene	marine water sediment	/	0.094 mg/kg
bis(isopropyl)naphthalene	soil	/	0.19 mg/kg

### 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

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vapours/aerosols. Do not eat, drink or smoke while working. Handle in accordance with good industrial hygiene and safety practice.

### 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

If there is risk of splashing into eyes, wear safety glasses with side shields (BS EN ISO 16321-1:2022).

#### Hand protection

Protective gloves (EN 374).

### Appropriate materials

#### Skin protection

Wear suitable protective clothing.

#### Respiratory protection

Not needed under normal use and adequate ventilation.

### 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

gray-green or black

#### Odour

almost odorless

#### 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>	> 141 °C (DIN 51758)
<b>Auto-ignition temperature</b>	No information.
<b>Decomposition temperature</b>	No information.
<b>pH</b>	(Not applicable)
<b>Viscosity</b>	Dynamic: 3000 — 6000 mPas at 20 °C
<b>Solubility</b>	Water: insoluble
<b>Partition coefficient</b>	No information.
<b>Vapour pressure</b>	0.005 hPa at 20 °C (OECD 104)

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Density and/or relative density	Density: 1.3 — 1.6 g/cm <sup>3</sup> at 23 °C (IKM 4/24)
Relative vapour density	No information.
Particle characteristics	No information.

### 9.2 OTHER INFORMATION

Explosive properties	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.

### 10.5 INCOMPATIBLE MATERIALS

No information.

### 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.

## 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
propane-1,2-diol, propoxylated	oral	LD <sub>50</sub>	rat	/	500 - 2000 mg/kg	/	/
propane-1,2-diol, propoxylated	dermal	LD <sub>50</sub>	rabbit (male/female)	/	> 3000 mg/kg	OECD 402	/
bis(isopropyl)naphthalene	oral	LD <sub>50</sub>	rat	/	> 4000 mg/kg	OECD 401	/
bis(isopropyl)naphthalene	inhalation	LC <sub>50</sub>	/	/	> 5.6 mg/l	OECD 403	/
bis(isopropyl)naphthalene	dermal	LD <sub>50</sub>	rat	/	4000 mg/kg	OECD 402	/

#### (b) Skin corrosion/irritation

For components

Name	Species	Time	result	Method	Remark
propane-1,2-diol, propoxylated	rabbit	/	No irritant effect.	OECD 404	/
bis(isopropyl)naphthalene	rabbit	/	No irritant effect.	OECD 404	/

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### (c) Serious eye damage/irritation

#### For components

Name	Exposure route	Species	Time	result	Method	Remark
<b>propane-1,2-diol, propoxylated</b>	/	rabbit	/	Mild irritating.	OECD 405	/
<b>bis(isopropyl) naphthalene</b>	/	rabbit	/	No irritant effect.	OECD 405	/

### (d) Respiratory or skin sensitisation

#### For components

Name	Exposure route	Species	Time	result	Method	Remark
<b>propane-1,2-diol, propoxylated</b>	dermal	mouse	/	Non sensitising.	OECD 429	/
<b>bis(isopropyl) naphthalene</b>	dermal	guinea pig	/	Non sensitising.	OECD 406	/

### (e) (Germ cell) mutagenicity

#### For components

Name	Type	Species	Time	result	Method	Remark
<b>propane-1,2-diol, propoxylated</b>	in-vitro mutagenicity	Bacteria ( <i>S. typhimurium</i> )	/	Negative.	OECD 471	Ames test
<b>propane-1,2-diol, propoxylated</b>	in-vitro mutagenicity	Cells V79 Chinese hamster	/	Negative with metabolic activation, negative without metabolic activation.	OECD 476	/
<b>propane-1,2-diol, propoxylated</b>	in-vitro mutagenicity	Human (lymphocytes)	/	Negative with metabolic activation, negative without metabolic activation.	OECD 473	Chromosome aberration assay
<b>bis(isopropyl) naphthalene</b>	in-vitro mutagenicity	/	/	Negative.	Ames test	/
<b>bis(isopropyl) naphthalene</b>	in-vivo mutagenicity	/	/	Non-mutagenic.	/	/

### (f) Carcinogenicity

#### For components

Name	Exposure route	Type	Species	Time	value	result	Method	Remark
<b>bis(isopropyl)naphthalene</b>	-	-	rat	/	/	negative	/	/

### (g) Reproductive toxicity

#### For components

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Name	Reproductive toxicity type	Type	Species	Time	value	result	Method	Remark
propane-1,2-diol, propoxylated	Reproductive toxicity	NOAEL (P)	rat (male)	28 days	1000 mg/kg	No effect	OECD 421	Dose: 0-100-300-1000 mg/kg; oral
propane-1,2-diol, propoxylated	Reproductive toxicity	NOAEL (P)	rat (female)	58 days	1000 mg/kg	No effect	OECD 421	Dose: 0-100-300-1000 mg/kg; oral
propane-1,2-diol, propoxylated	Effects on fertility	NOAEL (P)	rat (male)	28 days	1000 mg/kg	No effect	OECD 421	Dose: 0-100-300-1000 mg/kg; oral
propane-1,2-diol, propoxylated	Effects on fertility	NOAEL (P)	rat (female)	58 days	1000 mg/kg	No effect	OECD 421	Dose: 0-100-300-1000 mg/kg; oral
propane-1,2-diol, propoxylated	Reproductive toxicity	NOAEL (F1)	rat (male)	28 days	1000 mg/kg	No effect	OECD 421	Dose: 0-100-300-1000 mg/kg; oral
propane-1,2-diol, propoxylated	Reproductive toxicity	NOAEL (F1)	rat (female)	58 days	1000 mg/kg	No effect	OECD 421	Dose: 0-100-300-1000 mg/kg; oral
propane-1,2-diol, propoxylated	Maternal toxicity	NOAEL	rat (female)	58 days	1000 mg/kg	Negative.	OECD 421	Dose: 0-100-300-1000 mg/kg; oral
propane-1,2-diol, propoxylated	Developmental toxicity	NOAEL	rat (female)	58 days	1000 mg/kg	Negative.	OECD 421	Dose: 0-100-300-1000 mg/kg; oral

### Summary of evaluation of the CMR properties

No information.

### (h) STOT-single exposure

No information.

### (i) STOT-repeated exposure

### For components

Name	ExposureType route	Species	Time	Exposure organ	value	result	Method	Remark		
propane-1,2-diol, propoxylated	oral	NOAEL	rat (male/fe male)	4 weeks	/	/	≥ 1000 mg/kg	/	OECD 407	dose: 0-100-300-1000 mg/kg; daily
bis(isopropyl)naphthalene	-	NOEL	rat	/	/	/	170 mg/kg	/	/	/

### (j) Aspiration hazard

No information.

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



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No information.

### Interactive effects

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
propane-1,2-diol, propoxylate d	LC <sub>50</sub>	> 100 mg/L	96 h	fish	<i>Poecilia reticulata</i>	OECD 203	/
propane-1,2-diol, propoxylate d	EC <sub>50</sub>	> 100 mg/L	48 h	crustacea	<i>Daphnia magna</i>	OECD 202	/
propane-1,2-diol, propoxylate d	EC <sub>0</sub>	≥ 100 mg/L	72 h	algae	<i>Desmodesmus subspicatus</i>	OECD 201	/
propane-1,2-diol, propoxylate d	EC <sub>50</sub>	> 1000 mg/L	3 h	bacteria	Activated sludge	OECD 209	/
bis(isopropyl)naphthalene	LC <sub>0</sub>	0.5 mg/L	96 h	fish	/	OECD 203	/
bis(isopropyl)naphthalene	EC <sub>50</sub>	0.16 mg/L	48 h	crustacea	<i>Daphnia magna</i>	OECD 202	/
bis(isopropyl)naphthalene	EC <sub>0</sub>	0.15 mg/L	/	algae	/	OECD 201	/

#### Chronic (long-term) toxicity

#### For components

Name	Type	value	Exposure time	Species	organism	Method	Remark
propane-1,2-diol, propoxylate d	NOEC	≥ 10 mg/l	21 days	crustacea	<i>Daphnia magna</i>	OECD 211	/
bis(isopropyl)naphthalene	NOEC	0.013 mg/l	21 days	crustacea	<i>Daphnia magna</i>	OECD 202	/

### 12.2 PERSISTENCE AND DEGRADABILITY

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

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## For components

Name	Environment	Type / Method	Half Time	Evaluation	Method	Remark
propane-1,2-diol, propoxylated	Air	/	0.14 - 0.46 days	50%	SRC AOP	Conc. OH radicals: 500000/cm <sup>3</sup> ; half-life

## Biodegradation

### For components

Name	Type	Rate	Time	Evaluation	Method	Remark
propane-1,2-diol, propoxylated	aerobic	> 60 %	28 days	readily biodegradable	OECD 301 F	/
bis(isopropyl) naphthalene	-	/	/	Not rapidly biodegradable.	/	/

## 12.3 BIOACCUMULATIVE POTENTIAL

### Partition coefficient

#### For components

Name	Media	value	Temperature °C	pH	Concentration	Method
bis(isopropyl) naphthalene	Octanol-water (log Pow)	4	/	/	/	/

### 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

#### For components

Name	Type	Criterion	value	Evaluation	Method	Remark
propane-1,2-diol, propoxylated	Soil	/	1 - 10	/	/	Koc
propane-1,2-diol, propoxylated	Soil	log KOC	0 - 1	/	/	/
bis(isopropyl) naphthalene	Soil	log KOC	4.5	/	/	/

## 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

Harmful to aquatic life with long lasting effects. Do not allow to reach ground water, water courses or sewage system.

### For components

#### bis(isopropyl)naphthalene

Product can be mechanically separated.

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### SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1 WASTE TREATMENT METHODS

##### Product / Packaging disposal

##### Waste chemical

The generation of waste should be avoided or minimised wherever possible. Disposal must be made according to official regulations: deliver it to authorised collector/remover/transformer of hazardous waste. Do not allow product to reach drains/sewage systems.

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

08 04 09\* - waste adhesives and sealants containing organic solvents or other dangerous substances

##### Packaging

Residues must be completely removed from the tank (eg. by pouring, scraping or draining to the state with no drops). Dispose of completely emptied packaging to the authorized waste collector or hand over to collection centers of waste management companies under the classification numbers for waste packaging. Dispose of in accordance with applicable waste disposal regulation. Containers must be recycled in accordance with national legislation and environmental regulations. Empty containers or liners may contain product residues. Uncleaned containers are classified as hazardous waste - they should be handled in the same manner as the contents.

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

15 01 - packaging (including separately collected municipal packaging waste)

##### 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>			
Not dangerous according to transport regulations.	Not dangerous according to transport regulations.	Not dangerous according to transport regulations.	Not dangerous according to transport regulations.
<b>14.2 UN proper shipping name</b>			
Not given/not applicable	Not given/not applicable	Not given/not applicable	Not given/not applicable
<b>14.3 Transport hazard class(es)</b>			
Not given/not applicable	Not given/not applicable	Not given/not applicable	Not given/not applicable
<b>14.4 Packing group</b>			
Not given/not applicable	Not given/not applicable	Not given/not applicable	Not given/not applicable
<b>14.5 Environmental hazards</b>			
NO	NO	NO	NO
<b>14.6 Special precautions for user</b>			
Limited quantities Not given/not applicable	Limited quantities Not given/not applicable		Limited quantities Not given/not applicable
<b>14.7 Maritime transport in bulk according to IMO instruments</b>			
	Not given/not applicable		

### 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

No information.

### 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

9.1 Information on basic physical and chemical properties

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.  
H304 May be fatal if swallowed and enters airways.  
H314 Causes severe skin burns and eye damage.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H410 Very toxic to aquatic life with long lasting effects.