# SAFETY DATA SHEET ACCORDING TO REGULATION (EC) 1907/2006

# Product name: EK-Cryofuel Loop Cleaner Concentrate (EAN 3831109897690) Creation date: 26.05.2022, Revision: 13.10.2023, version: 1.5

SECTION 1: IDENTIFICATION OF T	HE SUBSTANCE/MIXTURE AND OF THE	COMPANY/UNDERTAKING
1.1 Product identifier Product name EK-Cryofuel Loop Cleaner Concen UFI: J2S4-V1TU-D007-XT95	rate (EAN 3831109897690)	https://my.chemius.net/p/sDT1vB/en/pd/e
1.2 Relevant identified uses of the su	bstance or mixture and uses advised against	:
Relevant identified uses Cleaner for water-cooled compute	r systems.	
Uses advised against No information.		
1.3 Details of the supplier of the safe	ty data sheet	
Supplier EKWB d.o.o.	Manufacturer KIMI d.o.o.	
Poslovna Cona Pod Lipami 18	Planjava 1	
1218 Komenda, Slovenia 0590 96610	1236 Trzin, Slovenia +386 1 5300 550	
	info@kimi.si	
1.4 Emergency Telephone Number		
Emergency 112		
Supplier 0590 96610		

# SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP) Skin Irrit. 2; H315 Causes skin irritation. Eye Dam. 1; H318 Causes serious eye damage. 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]



## Signal word: DANGER

H315 Causes skin irritation.
H318 Causes serious eye damage.
H412 Harmful to aquatic life with long lasting effects.
P102 Keep out of reach of children.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P313 If skin irritation occurs: Get medical advice/attention.
P501 Dispose of contents/container in accordance with national regulation.

Contains:

Quaternary ammoniumcompounds alcohol C10, ethoxylated Fatty acids, C8-10

2.3 Other hazards

PBT/vPvB

No information.

Endocrine disrupting properties

The product does not contain substances with the potential for endocrine disorders.

Additional information

The mixture does not contain substance(s) included in the list established in accordance with Article 59 of REACH for having endocrine disrupting properties, or substance(s) identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

# 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 Concentration Limits	Notes for substances
Quaternary ammoniumcompounds	68989-03-7 - -	2.5-5	Eye Dam. 1; H318 Aquatic Chronic 2; H411	/	/
alcohol C10, ethoxylated	26183-52-8 - -	2.5-5	Acute Tox. 4; H302 Eye Dam. 1; H318	/	/
Fatty acids, C8-10	68937-75-7 273-086-2 -	2.5-5	Skin Corr. 1A; H314	/	/
2-(2- butoxyethoxy)ethanol	112-34-5 203-961-6 603-096-00-8	1-2.5	Eye Irrit. 2; H319	/	/

## **SECTION 4: FIRST AID MEASURES**

#### 4.1 Description of first aid measures

#### **General notes**

Never give anything by mouth to an unconscious person. Place patient in recovery position and ensure airway patency. When in doubt or if feeling unwell seek medical assistance. Show the safety data sheet and label to the physician. No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. When it is suspected, that there may still be harmful vapours/fumes present in the air, respiratory protection (mask; self contained breathing apparatus) must be used. Wash contaminated clothing with water before removing or use gloves.

#### Following inhalation

Remove patient to fresh air - move out of dangerous area. In case of unconsciousness bring patient into stable side position and seek medical attention. If breathing is irregular or respiratory arrest occurs provide artificial respiration. Keep at rest in a position comfortable for breathing. Seek medical help immediately.

## Following skin contact

Take off all contaminated clothing. Areas of the body that have come into contact with the product must be rinsed with water. 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!

#### **Following ingestion**

Do not induce vomiting! Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. 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

Excessive exposure to spray mist, fog, or vapours may cause respiratory irritation.

#### Following skin contact

Skin burns: Signs/symptoms may include localised redness, swelling, itching, dryness, blistering.

Following eye contact

Redness, pain, burning sensation, tearing, can cause permanent damage to the eyes.

**Following ingestion** 

May cause nausea/vomiting and diarrhea. May cause abdominal discomfort. If ingested, may cause burns of the mouth and throat, as well as perforation of the esophagus and stomach. Irritates mucous membranes in the mouth, throat, esophagus and in gastrointestinal area.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## **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. No action shall be taken involving any personal risk or without suitable training.

#### Special protective equipment for fire-fighters

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

Additional information

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 No information.

Precautionary measures Ensure adequate ventilation.

#### **Emergency procedures**

No action shall be taken involving any personal risk or without suitable training. Prevent access to unprotected personnel. Evacuate the danger zone. Do not breathe vapour or mist. Avoid contact with skin, eyes and clothing.

## For emergency responders

Use personal protective equipment.

#### 6.2 Environmental precautions

Do not allow product to reach water/drains/sewage systems or permeable soil. In case of release into the environment, inform the relevant authorities.

#### 6.3 Methods and material for containment and cleaning up

For containment

Stem the spill if this does not pose risks.

For cleaning up

Absorb product (with inert material), collect it in special container and dispose it to a licensed hazardous-waste disposal contractor. Prevent release into the sewer, water, basements or confined areas. Ventilate the premises. Clean contaminated area with plenty of water.

#### 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.

Measures to prevent aerosol and dust generation Use general or local exhaust ventilation to prevent inhaling vapours and aerosols. Measures to protect the environment

Do not discharge into drains, surface water and soil. After use immediately close container tightly.

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. Remove contaminated clothes and wash them before reuse. Wear suitable protective equipment; see Section 8.

### 7.2 Conditions for safe storage, including any incompatibilities

## Technical measures and storage conditions

Keep in a cool, dry and well ventilated place. Keep away from food, drink and animal feeding stuffs.

Packaging materials

Store only in original container.

#### Requirements for storage rooms and vessels

Close opened containers after use. Put the containers upright to prevent from leaking. Do not store in unlabelled containers.

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

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
2-(2-Butoxyethoxy) ethanol (112-34-5)	67.5	10	101.2	15	/	/

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.

Name	Туре	Exposure route	exp. frequency	Remark	value
2-(2- butoxyethoxy)ethanol	Worker	dermal	long term systemic effects	/	83 mg/kg bw/day
2-(2- butoxyethoxy)ethanol	Consumer	dermal	long term systemic effects	/	50 mg/kg bw/day
2-(2- butoxyethoxy)ethanol	Consumer	inhalation	long term systemic effects	/	40.5 mg/m <sup>3</sup>

2-(2- butoxyethoxy)ethanol	Consumer	inhalation	long term local effects	/	40.5 mg/m <sup>3</sup>
2-(2- butoxyethoxy)ethanol	Consumer	oral	long term systemic effects	/	5 mg/kg bw/day
2-(2- butoxyethoxy)ethanol	Worker	inhalation	long term systemic effects	/	67.5 mg/m <sup>3</sup>
2-(2- butoxyethoxy)ethanol	Worker	inhalation	long term local effects	/	67.5 mg/m <sup>3</sup>
2-(2- butoxyethoxy)ethanol	Worker	inhalation	short term local effects	/	101.2 mg/m <sup>3</sup>

## **PNEC** values

For product

# No information.

For components

Name	Exposure route	Remark	value
2-(2-butoxyethoxy)ethanol	fresh water	/	1 mg/L
2-(2-butoxyethoxy)ethanol	marine water	/	0.1 mg/L
2-(2-butoxyethoxy)ethanol	water treatment plant	/	200 mg/L
2-(2-butoxyethoxy)ethanol	fresh water sediment	/	4 mg/kg dw
2-(2-butoxyethoxy)ethanol	marine water sediment	/	0.4 mg/kg dw
2-(2-butoxyethoxy)ethanol	soil	/	0.4 mg/kg dw

#### 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. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothes. Do not eat, drink or smoke while working. Do not breathe vapours/aerosols.

Structural measures to prevent exposure No information.

### Organisational measures to prevent exposure

Remove all contaminated clothes immediately and wash them before reuse. Keep eyewash bottles or personal eyewash units and emergency showers available.

#### Technical measures to prevent exposure

Provide good ventilation and local exhaust in areas with increased concentration. Keep away from food, drink and animal feeding stuffs.

#### Personal protective equipment

#### Eye and face protection

Wear tight fitting protective goggles and/or face protection (EN 166).

#### Hand protection

Protective gloves (EN ISO 374-1:2016). 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. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. The penetration time is determined by the protective glove manufacturer and must be observed.

Appropriate materials

#### Skin protection

Cotton protective clothing and shoes that cover the entire foot (EN ISO 20345:2022). At high risk of skin exposure chemical suits (BS EN 13034:2005+A1:2009) and boots may be required (BS EN ISO 20345:2022).

**Respiratory protection** 

In case of insufficient ventilation wear suitable respiratory protection. Wear suitable protective breathing mask (EN 136) with filter A2-P2 (EN 14387). For dust/gas/ vapor concentrations above the applicable filter limit, in case of oxygen concentrations below 17% or in vague conditions, autonomous self-contained breathing apparatus should be used, according to standard BS EN 137, BS EN 138.

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

Do not allow product to reach drains, sewage systems or ground water.

# **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

9.1 Information on basic physical and chemical properties

Physical state

liquid

Соlоиг

colourless

Odour

No information.

Important health, safety and environmental information

Odour threshold	No information.
Melting point/Freezing point	No information.
Boiling point or initial boiling point and boiling range	No information.
Flammability	No information.
Lower and upper explosion limit	No information.
Flash point	No information.
Auto-ignition temperature	No information.
Decomposition temperature	No information.
рН	9.56 at 20 °C, conc. 1000 %
Viscosity	No information.
Solubility	No information.
Partition coefficient	No information.
Vapour pressure	No information.
Density and/or relative density	Density: 1.071 g/cm <sup>3</sup> at 20 °C
Relative vapour density	No information.
Particle characteristics	No information.

## 9.2 Other information

**Explosive properties** 

No information.

# 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 information.

## 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	Туре	Species	Time	value	Method	Remark
alcohol C10, ethoxylated	oral	LD <sub>50</sub>	rat	/	300 - 2000 mg/kg	/	/
2-(2- butoxyethoxy)et hanol	dermal	ATE	/	/	2764 mg/kg	/	/

## Additional information

## The product is not classified as acutely toxic.

## (b) Skin corrosion/irritation

For components

Name	Species	Time	result	Method	Remark
2-(2- butoxyethoxy)ethanol	/	/	Irritating.	/	/

# Additional information

Causes skin irritation.

## (c) Serious eye damage/irritation

For components

Name	Exposure route	Species	Time	result	Method	Remark
alcohol C10, ethoxylated	/	/	/	Danger of serious eye injury.	/	/
2-(2- butoxyethoxy)ethan ol	/	rabbit	/	Severe irritation.	/	/

Additional information

# Causes serious eye damage.

## (d) Respiratory or skin sensitisation

Name Exposure route Species	Time	result	Method	Remark
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2-(2- butoxyethoxy)etl	nan dermal	guinea pig	/	Non sensitising.	Maximisation test	/
ol						

Additional information

# The product is not classified as sensitising.

(e) (Germ cell) mutagenicity

For components

Name	Туре	Species	Time	result	Method	Remark
2-(2- butoxyethoxy)ethan ol	in-vitro mutagenicity	/	/	Negative.	Ames test	/
2-(2- butoxyethoxy)ethan ol	in-vitro mutagenicity	Cell: Mammalian- Animal	/	Negative.	/	/
2-(2- butoxyethoxy)ethan ol	in-vitro mutagenicity	/	/	Negative.	/	Chromosome aberration assay
2-(2- butoxyethoxy)ethan ol	in-vivo mutagenicity	mouse	/	Negative.	/	orally; bone marrow; chromosomal aberration test

## (f) Carcinogenicity

## For components

Name	Exposure route	Туре	Species	Time	value	result	Method	Remark
2-(2- butoxyethoxy) ethanol	/	/	/	/	/	The chemical is not classified as carcinogenic.	/	/

## (g) Reproductive toxicity

For components

Name	Reproductive toxicity type	Туре	Species	Time	value	result	Method	Remark
2-(2- butoxyethoxy) ethanol	Effects on fertility	-	rat	/	/	Negative.	OECD 415	One- generation study, oral
2-(2- butoxyethoxy) ethanol	Developmental toxicity	/	rat	/	/	Negative.	/	embrio-fetal development, oral

Summary of evaluation of the CMR properties

The product is not classified as carcinogenic, mutagenic or toxic for reproduction.

## (h) STOT-single exposure

Name	Exposure route	Туре	Species	Time	Exposure	organ	value	result	Method	Remark
alcohol C10, ethoxylated	inhalation	/	/	/	/	/	/	No information was available.	/	/
2-(2- butoxyetho xy)ethanol	oral	-	/	/	sub-acute	/	/	Ingestion causes vomiting, abdominal pain and similar symptoms as when inhaling.	/	/
2-(2- butoxyetho xy)ethanol	inhalation	-	/	/	sub-acute	/	/	Headache, dizziness.	/	/
2-(2- butoxyetho xy)ethanol	inhalation	-	/	/	sub-acute	/	/	Inhalation affects the central nervous system.	/	vapour

## Additional information STOT SE (single exposure): Not classified.

# (i) STOT-repeated exposure

For components

Name	Exposure route	Туре	Species	Time	Exposure	organ	value	result	Method	Remark
2-(2- butoxyetho xy)ethanol	-	-	/	/	chronic	/	/	Repeated or prolonged exposure causes damage to the brain and nervous system.	/	/
2-(2- butoxyetho xy)ethanol	dermal	-	/	/	sub-chronic	/	/	Repeated or prolonged contact with the product may lead to removal of natural fats from the skin and non-allergic contact dermatitis.	/	/

## Additional information

STOT RE (repeated exposure): Not classified.

(j) Aspiration hazard

No information.

Additional information Aspiration hazard: Not classified.

Symptoms related to the physical, chemical and toxicological characteristics

No information.

Interactive effects

No information.

# 11.2 Information on other hazards

Endocrine disrupting properties

# The product does not contain substances with the potential for endocrine disorders.

Other information

No information.

# SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Acute (short-term) toxicity

Name	Туре	value	Exposure time	Species	organism	Method	Remark
alcohol C10, ethoxylated	LC <sub>50</sub>	10 mg/L	/	fish	/	/	/
alcohol C10, ethoxylated	EC <sub>50</sub>	10 mg/L	/	crustacea	/	/	/
alcohol C10, ethoxylated	EC <sub>50</sub>	140 mg/L	/	other aquatic organisms	/	/	/
alcohol C10, ethoxylated	ErC <sub>50</sub>	10 mg/L	/	algae	/	/	/

2-(2- butoxyethoxy)et hanol	LC <sub>50</sub>	> 100 mg/L	/	fish	Leuciscus idus	/	/
2-(2- butoxyethoxy)et hanol	EC <sub>50</sub>	> 100 mg/L	48 h	crustacea	Daphnia magna	/	/
2-(2- butoxyethoxy)et hanol	EC <sub>50</sub>	> 100 mg/L	/	algae	Desmodesmus subspicatus	/	/

## Chronic (long-term) toxicity

## For components

Name	Туре	value	Exposure time	Species	organism	Method	Remark
2-(2- butoxyethoxy)et hanol	NOEC	> 10 mg/l	21 days	/	Daphnia magna	/	/

## 12.2 Persistence and degradability

Abiotic degradation, physical- and photo-chemical elimination For components

Name	Environment	Type / Method	Half Time	Evaluation	Method	Remark
2-(2- butoxyethoxy)ethan ol	Air	photodegradation	3.4 h	50%	AOPWIN	Conc. of OH radicals: 1,5E6 /cm³; Experimental value

# Biodegradation

For components

Name	Туре	Rate	Time	Evaluation	Method	Remark
alcohol C10, ethoxylated	biodegradability	> 60 %	/	biodegradable	/	/
2-(2- butoxyethoxy)ethan ol	aerobic	100 %	28 days	biodegradable	OECD 302 B	activated sludge
2-(2- butoxyethoxy)ethan ol	aerobic	> 70 %	28 days	readily biodegradable	OECD 301 E	activated sludge
2-(2- butoxyethoxy)ethan ol	-	76 %	28 days	readily biodegradable	OECD 301 D	/
2-(2- butoxyethoxy)ethan ol	-	90 - 100 %	8 days	readily biodegradable	/	302 B
2-(2- butoxyethoxy)ethan ol	-	90 - 100 %	14 days	readily biodegradable	OECD 301 E	/

## 12.3 Bioaccumulative potential

**Partition coefficient** 

For components

Name	Media	value	Temperature °C	рН	Concentration	Method
2-(2- butoxyethoxy)ethan ol	log Kow	1	/	/	/	/

Bioconcentration factor (BCF)

Name	Species	organism	value	Duration	Evaluation	Method	Remark
2-(2- butoxyethoxy)et hanol	BCF	/	0.46	/	/	/	/

### 12.4 Mobility in soil

Known or predicted distribution to environmental compartments

For components

Name	Air	Water	Soil	Sediment	(Aquatic) Biota	Method	Remark
2-(2- butoxyethoxy)et hanol	0.01	99.66	0.32	0.01	/	Mackay level 1	QSAR

# Surface tension

For components

Name	value	Temperature °C	Concentration	Method	Remark
2-(2- butoxyethoxy)ethanol	33950 N/m	25	/	/	/

## Adsorption/Desorption

## For components

Name	Туре	Criterion	value	Evaluation	Method	Remark
alcohol C10, ethoxylated	Soil	/	2000	/	/	mobility in soil
2-(2- butoxyethoxy)ethan ol	Water	/	/	Mobile in water	/	/

## 12.5 Results of PBT and vPvB assessment

No evaluation.

#### 12.6 Endocrine disrupting properties

The product does not contain substances with the potential for endocrine disorders.

## 12.7 Other adverse effects

No information.

## 12.8 Additional information

## For product

Harmful to aquatic organisms. May cause long term adverse effects in the aquatic environment. Do not allow to reach ground water, water courses or sewage system.

## For components

**alcohol C10, ethoxylated** The material is biodegradable.

## Fatty acids, C8-10

Do not allow to reach ground water, water bodies or sewage systems.

## 2-(2-butoxyethoxy)ethanol

This substance is not PBT-/vPvB.. Water hazard class 1 (Self-assessment): slightly hazardous for water

## **SECTION 13: DISPOSAL CONSIDERATIONS**

13.1 Waste treatment methods
 Product / Packaging disposal
 Waste chemical
 Do not allow product to reach drains/sewage systems. 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. 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 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 ΙΑΤΑ ADN 14.1 UN number or ID number Not dangerous according to transport Not dangerous according to Not dangerous according to Not dangerous according to transport regulations. transport regulations. transport regulations. regulations. 14.2 UN proper shipping name Not given/not applicable Not given/not applicable Not given/not applicable Not given/not applicable 14.3 Transport hazard class(es) Not given/not applicable Not given/not applicable Not given/not applicable Not given/not applicable 14.4 Packing group Not given/not applicable Not given/not applicable Not given/not applicable Not given/not applicable 14.5 Environmental hazards NO NO NO NO 14.6 Special precautions for user Limited quantities Limited quantities Limited quantities Not given/not applicable Not given/not applicable Not given/not applicable 14.7 Maritime transport in bulk according to IMO instruments Not given/not applicable

# **SECTION 15: REGULATORY INFORMATION**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- 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

Ingredients according to Regulation (EC) No 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

A Chemical Safety Assessment has not been carried out.

## **SECTION 16: OTHER INFORMATION**

Indication of changes

2.2 Label elements 2.3 Other hazards 3.2 Mixtures 4.1 Description of first aid measures 6.2 Environmental precautions 6.3 Methods and material for containment and cleaning up 8.2 Exposure controls 9.1 Information on basic physical and chemical properties 9.2 Other information 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 12.6 Endocrine disrupting properties 12.7 Other adverse effects 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture 15.2 Chemical Safety Assessment

Key literature references and sources for data No information.

### Abbreviations and acronyms

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. H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.