

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

## WHITE FOAM TF

Creation date 15th April 2022

Revision date Version 1.0

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

1.1. Product identifier WHITE FOAM TF

Substance / mixture mixture

## 1.2. Relevant identified uses of the substance or mixture and uses advised against

Mixture's intended use

Active car washing foam.

## Mixture uses advised against

not available

## 1.3. Details of the supplier of the safety data sheet

#### Manufacturer

Name or trade name TENZI Sp. z o.o.

Address Skarbimierzyce 20, Dołuje, 72-002

Poland

 VAT Reg No
 PL8512583405

 Phone
 +48 91 3119777

 E-mail
 info@tenzi.pl

 Web address
 www.tenzi.pl

## Competent person responsible for the safety data sheet

Name technolog@tenzi.pl E-mail technolog@tenzi.pl

### 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 Irrit. 2, H315 Eye Dam. 1, H318

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

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

Causes skin irritation. Causes serious eye damage.

## 2.2. Label elements

## Hazard pictogram



# Signal word

Danger

## **Hazard statements**

H315 Causes skin irritation. H318 Causes serious eye damage.

**Precautionary statements** 

P280 Wear eye 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.

P310 Immediately call a POISON CENTER/doctor.

P501 Dispose of container to properly labeled waste containers in accordance with

national regulations.



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#### **Supplemental information**

5-<15 % anionic surfactants, <5 % phosphonates, <5 % non-ionic surfactants

### 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.

#### **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

#### **Chemical characterization**

Mixture of substances and additives specified below.

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
CAS: 68439-57-6 EC: 931-534-1 Registration number: 01-2119513401-57- XXXX	sulfonic acids, C14-16-hydroskyalkane and C14-16-alkene, sodium salts	<15	Skin Irrit. 2, H315 Eye Dam. 1, H318 Specific concentration limit: Skin Irrit. 2, H315; Eye Dam. 1, H318: $C > 38\%$ Skin Irrit. 2, H315; Eye Irrit. 2, H319: $5\% < C \le 38\%$ Skin Irrit. 2, H315: $C \le 5\%$	
Index: 011-002-00-6 CAS: 1310-73-2 EC: 215-185-5 Registration number: 01-2119457892-27- XXXX	sodium hydroxide	<1	Met. Corr. 1, H290 Skin Corr. 1A, H314 Specific concentration limit: Skin Corr. 1B, H314: $2\% \le C < 5\%$ Skin Corr. 1A, H314: $C \ge 5\%$ Eye Irrit. 2, H319: $0,5\% \le C < 2\%$ Skin Irrit. 2, H315: $0,5\% \le C < 2\%$	
CAS: 68515-73-1 EC: 500-220-1 Registration number: 01-2119488530-36	D-glucopyranose, C8-10 alkyl glycosides oligomers	<1	Eye Dam. 1, H318	
Index: 603-002-00-5 CAS: 64-17-5 EC: 200-578-6 Registration number: 01-2119457610-43- XXXX	ethanol	<0,6	Flam. Liq. 2, H225 Eye Irrit. 2, H319 Specific concentration limit: Eye Irrit. 2, H319: C ≥ 50 %	

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.

# 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.



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#### 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. No neutralization should be performed in any case! Rinsing should be continued for 10-30 minutes from the inner to the outer eye corner to make sure that the other eye is not involved. Depending on the situation, call medical rescue service or ensure medical treatment as promptly as possible. Everyone must be referred for treatment even if affected only a little.

#### If swallowed

DO NOT INDUCE VOMITING - even the inducted vomiting can cause complications as in case of detergents and other foaming substances.

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

#### If inhaled

Inhaling vapours can cause corrosion of the breathing system.

#### If on skin

Causes skin irritation.

#### If in eyes

Causes serious eye damage.

#### If swallowed

Corrosion of the digestion system can occur.

## 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

Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Prevent contact with skin and eyes.

## 6.2. Environmental precautions

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

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

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents.

# 6.4. Reference to other sections

See the Section 7, 8 and 13.



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#### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Prevent formation of gases and vapours in concentrations exceeding the occupational exposure limits. Prevent contact with skin and eyes. Wash hands and exposed parts of the body thoroughly after handling. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection.

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

Store in a tightly closed, original plastic container (high density polyethylene HDPE). Store this product in a dry environment that will be maintained at 5°C - 35°C temperature with a good ventilation system and an easy washable, nonabsorbable alkaline resistant floor. DO NOT expose the product to sunlight and keep away from heat, frost, sparks, flame and source of ignition.

Storage temperature

min 5 °C, max 35 °C

# 7.3. Specific end use(s)

not available

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

# 8.1. Control parameters

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

#### DNEL

D-glucopyranose, C8-10 alkyl glycosides oligomers

Workers / consumers	Route of exposure	Value	Effect	Determining method	Source
Workers	Dermal	595000 mg/kg	Systemic chronic effects		SDS
Workers	Inhalation	420 mg/m <sup>3</sup>	Systemic chronic effects		SDS
Consumers	Dermal	357000 mg/kg	Systemic chronic effects		SDS
Consumers	Oral	35.7 mg/kg	Systemic chronic effects		SDS
Consumers	Inhalation	124 mg/m <sup>3</sup>	Systemic chronic effects		SDS

#### ethanol

Workers / consumers	Route of exposure	Value	Effect	Determining method	Source
Workers	Dermal	343 mg/kg	Systemic chronic effects		SDS
Workers	Inhalation	950 mg/m <sup>3</sup>	Systemic acute effects		SDS
Workers	Dermal	1900 mg/kg	Systemic acute effects		SDS
Consumers	Dermal	206 mg/kg	Systemic chronic effects		SDS
Consumers	Oral	87 mg/kg	Systemic chronic effects		SDS
Consumers	Inhalation	114 mg/m <sup>3</sup>	Systemic chronic effects		SDS
Consumers	Dermal	950 mg/kg	Systemic acute effects		SDS
Consumers	Inhalation	950 mg/m <sup>3</sup>	Systemic acute effects		SDS

## sodium hydroxide

Workers / consumers	Route of exposure	Value	Effect	Determining method	Source
Workers	Inhalation	1.0 mg/m <sup>3</sup>	Local chronic effects		SDS
Consumers	Inhalation	1.0 mg/m <sup>3</sup>	Local chronic effects		SDS



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## sulfonic acids, C14-16-hydroskyalkane and C14-16-alkene, sodium salts

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Workers / consumers	Route of exposure	Value	Effect	Determining method	Source
Workers	Dermal	2158.33 mg/kg bw/day	Systemic chronic effects		karta charakterystyki
Workers	Inhalation	152.22 mg/m <sup>3</sup>	Systemic chronic effects		karta charakterystyki
Consumers	Dermal	1295 mg/kg bw/day	Systemic chronic effects		karta charakterystyki
Consumers	Oral	12.95 mg/kg bw/day	Systemic chronic effects		karta charakterystyki
Consumers	Inhalation	45.04 mg/m <sup>3</sup>	Systemic chronic effects		karta charakterystyki

# PNEC

# D-glucopyranose, C8-10 alkyl glycosides oligomers

Route of exposure	Value	Determining method	Source
Drinking water	0.176 mg/l		SDS
Seawater	0.0176 mg/l		SDS
Water (intermittent release)	0.27 mg/l		SDS
Microorganisms in wastewater treatment plants	560 mg/l		SDS
Freshwater sediment	1.516 mg/kg		SDS
Sea sediments	0.152 mg/kg		SDS
Soil (agricultural)	0.654 mg/kg		SDS
Oral	111.11 mg/kg		SDS

## ethanol

Route of exposure	Value	Determining method	Source
Soil (agricultural)	0.63 mg/kg		SDS
Microorganisms in wastewater treatment plants	580 mg/l		SDS
Seawater	0.79 mg/l		SDS
Freshwater sediment	3.6 mg/kg		SDS
Drinking water	0.96 mg/l		SDS

# sulfonic acids, C14-16-hydroskyalkane and C14-16-alkene, sodium salts

Route of exposure	Value	Determining method	Source
Drinking water	0.024 mg/l		karta charakterystyki
Seawater	0.0024 mg/l		karta charakterystyki
Freshwater sediment	0.767 mg/kg		karta charakterystyki
Sea sediments	0.0767 mg/kg		karta charakterystyki
Soil (agricultural)	1.21 mg/kg		karta charakterystyki
Water (intermittent release)	0.0197 mg/kg		karta charakterystyki



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# 8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

#### Eye/face protection

Protective goggles or face shield (based on the nature of the work performed).

#### Skin protection

When handling in long-term or repeatedly, use protective gloves.

#### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

### Thermal hazard

Data not available.

# **Environmental exposure controls**

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

## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state liquid
Colour brown

Odour Characteristic for the materials used

Melting point/freezing point data not available
Boiling point or initial boiling point and boiling range data not available

Flammability data not available data not available

Lower and upper explosion limit data not available
Flash point data not available
Auto-ignition temperature data not available
Decomposition temperature data not available
data not available

pH 13 (undiluted)
Kinematic viscosity data not available

Solubility in water soluble

Partition coefficient n-octanol/water (log value) data not available Vapour pressure data not available

Density and/or relative density

Density 1,019-1,059 g/cm³
Relative vapour density data not available
Particle characteristics data not available

Form liquid

### 9.2. Other information

not available

# **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

not available

## 10.2. Chemical stability

The product is stable under normal conditions.

## 10.3. Possibility of hazardous reactions

Unknown.



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#### 10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

#### 10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

## 10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

# **SECTION 11: Toxicological information**

## 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Inhalation of solvent vapors above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time. No toxicological data is available for the mixture.

### **Acute toxicity**

Based on available data the classification criteria are not met.

D-glucopyranose, C8-10 alkyl glycosides oligomers

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex	Source
Oral	LD <sub>50</sub>	OECD 401	>5000 mg/kg		Rat		SDS
Dermal	LD50	OECD 402	>5000 mg/kg				SDS

#### ethanol

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex	Source
Oral	LD50		6.2-15 g/l		Rat (Rattus norvegicus)		SDS
Oral	LDL0		6000 mg/kg		Human	7	SDS
	LDL0		7060 mg/kg		Rat (Rattus norvegicus)		SDS
Inhalation	LC50		<50 mg/l	4 hour	Rat (Rattus norvegicus)		SDS

## sodium hydroxide

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex	Source
Intraperitoneally	LD50		40 mg/kg		Mouse		SDS
Oral	LDL0		500 mg/kg		Rabbit		SDS
Oral	TDLo		44 mg/kg		Rat (Rattus norvegicus)		SDS

# sulfonic acids, C14-16-hydroskyalkane and C14-16-alkene, sodium salts

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex	Source
Oral	LD50		2079 mg/kg		Rat		karta charakter ystyki
Dermal	LD50		6300-13500 mg/kg		Rabbit		karta charakter ystyki
Inhalation	LC50		>52 mg/l	4 hour	Rat		karta charakter ystyki

# Skin corrosion/irritation

Causes skin irritation.

D-glucopyranose, C8-10 alkyl glycosides oligomers

Route of exposure	Result	Method	Time of exposure	Species	Source
	Slightly irritating				SDS



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## sulfonic acids, C14-16-hydroskyalkane and C14-16-alkene, sodium salts

Route of exposure	Result	Method	Time of exposure	Species	Source
Dermal	Irritating	OECD 404		Rabbit	karta charakteryst yki

## Serious eye damage/irritation

Causes serious eye damage.

D-glucopyranose, C8-10 alkyl glycosides oligomers

Route of exposure	Result	Method	Time of exposure	Species	Source
	Serious eye damage				SDS

# sulfonic acids, C14-16-hydroskyalkane and C14-16-alkene, sodium salts

Route of exposure	Result	Method	Time of exposure	Species	Source
Eye	Irritating	OECD 405		Rabbit	karta charakteryst yki

## Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

sulfonic acids, C14-16-hydroskyalkane and C14-16-alkene, sodium salts

Route of exposure	Result	Time of exposure	Species	Sex	Source
7	Not sensitizing	7 . V			karta charakterysty ki

## 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.

sulfonic acids, C14-16-hydroskyalkane and C14-16-alkene, sodium salts

Route of exposure	Parameter	Value	Result	Species	Sex	Source
	NOAEL	259 mg/kg/24hour				karta charakteryst yki

# **Aspiration hazard**

Based on available data the classification criteria are not met.

### 11.2. Information on other hazards

not available

# **SECTION 12: Ecological information**

12.1. Toxicity



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## **Acute toxicity**

D-glucopyranose, C8-10 alkyl glycosides oligomers

Parameter	Method	Value	Time of exposure	Species	Environme nt	Source
LC50	OECD 203	>100 mg/l	96 hour	Fishes (Branchydanio rerio)		SDS
EC50		>100 mg/l	48 hour	Aquatic invertebrates (Daphnia magna)		SDS
EC50	OECD 201	>10<100 mg/l	72 hour	Algae (Desmodesmus subspicatus)		SDS
EC10		>100 mg/l	6 hour	Microorganisms (Pseudomonas putida)		SDS
NOEC	OECD 204	>1 mg/l	28 day	Fishes (Branchydanio rerio)		SDS
NOEC	OECD 202	>1 mg/l	21 day	Daphnia (Daphnia magna)		SDS

## sodium hydroxide

Parameter	Method	Value	Time of exposure	Species	Environme nt	Source
EC50		40.4 mg/l	48 hour	Aquatic invertebrates (Ceriodaphnia dubia)	R	SDS
EC50		22 mg/l	15 min	Microorganisms (Photobacterium phosphoreum)		SDS

# sulfonic acids, C14-16-hydroskyalkane and C14-16-alkene, sodium salts

Parameter	Method	Value	Time of exposure	Species	Environme nt	Source
EC50	OECD 202	4.53 mg/l	48 hour	Daphnia (Daphnia magna)		karta charakter ystyki
ErC50	ISO 10253	5.2 mg/l	72 hour	Algae (Selenastrum capricornutum)		karta charakter ystyki
LC50	OECD 203	4.2 mg/l	96 hour	Fishes (Oncorhynchus mykiss)		karta charakter ystyki
EC10	OECD 209	40 mg/ml	3 hour	Bacteria (Salmonella typhimurium)	Activated sludge	karta charakter ystyki
NOEC	OECD 211	6.3 mg/l	21 day	Daphnia (Daphnia magna)		karta charakter ystyki
NOEC		3.2 mg/l	72 hour	Algae (Selenastrum capricornutum)		karta charakter ystyki

# 12.2. Persistence and degradability



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#### **Biodegradability**

D-glucopyranose, C8-10 alkyl glycosides oligomers

Parameter	Value	Time of exposure	Environment	Result	Source
				Biodegradable	karta charakteryst yki

Surfactants are biodegradable according to the European Parliament and Council Regulation (EC) No. 648/2004 on detergents, as amended.

#### 12.3. Bioaccumulative potential

Data not available.

## 12.4. Mobility in soil

Data not available.

#### 12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

## 12.6. Endocrine disrupting properties

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

#### 12.7. Other adverse effects

Data not available.

#### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

# Waste management legislation

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

## Waste type code

07 06 04 other organic solvents, washing liquids and mother liquors \*

# Packaging waste type code

15 01 02 plastic packaging

(\*) - 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

No

# 14.6. Special precautions for user

Reference in the Sections 4 to 8.

# 14.7. Maritime transport in bulk according to IMO instruments

not relevant



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#### **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. REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents, as ammended.

#### 15.2. Chemical safety assessment

Chemical safety assessment has not been carried out for the mixture.

Sodium hydroxide: the manufacturer has performed a chemical safety assessment

ethanol: A Chemical Safety Assessment has been carried out

D-glucopyranose, C8-10 alkyl glycosides oligomers: the manufacturer has performed a chemical safety assessment Sulfonic acids, C14-16-hydroskyalkane and C14-16-alkene, sodium salts: no data available

#### **SECTION 16: Other information**

H225 Highly flammable liquid and vapour.

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage. H319 Causes serious eye irritation.

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

P501 Dispose of container to properly labeled waste containers in accordance with

national regulations.

P310 Immediately call a POISON CENTER/doctor.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P280 Wear eye protection.

#### 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

CE<sub>50</sub> Concentration of a substance when it is affected 50% of the population CLP Regulation (EC) No 1272/2008 on classification, labelling and packaging of

substance and mixtures

DNEL Derived no-effect level

EINECS European Inventory of Existing Commercial Chemical Substances

EmS Emergency plan

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



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LC50 Lethal concentration of a substance in which it can be expected death of 50% of the

population

LD50 Lethal dose of a substance in which it can be expected death of 50% of the

population

log Kow Octanol-water partition coefficient LZO Volatile organic compounds

MARPOL International Convention for the Prevention of Pollution from Ships

NOAEL
NO observed adverse effect level
NOEC
No observed effect concentration
OEL
Occupational Exposure Limits
PBT
Persistent, Bioaccumulative and T

PBT Persistent, Bioaccumulative and Toxic
PNEC Predicted no-effect concentration

ppm Parts per million

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals

RID Agreement on the transport of dangerous goods by rail

UE European Union

UN Four-figure identification number of the substance or article taken from the UN

Model Regulations

UVCB Substances of unknown or variable composition, complex reaction products or

biological materials

vPvB Very Persistent and very Bioaccumulative

WE Identification code for each substance listed in EINECS

Eye Dam.

Eye Irrit.

Flam. Liq.

Met. Corr.

Skin Corr.

Skin Irrit.

Serious eye damage

Eye irritation

Flammable liquid

Corrosive to metals

Skin corrosion

Skin irritation

### **Training guidelines**

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

# Recommended restrictions of use

not available

# Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

## More information

Classification procedure - calculation method.

### Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.