#### Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758



Rigorex

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

<b>1.1 Product identifier</b>	itifier	iden	uct	Prod	1.1	1
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Product name

UFI

1	Rigorex
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Product description Product type : Cleaner.

: Liquid.

: 1940-20QX-X00D-S4M6

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

Identified uses	
Industrial use Professional use	
Uses advised against	Reason
Consumer use	Product is not intended for consumer use.

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

RUST-OLEUM EUROPE Martin Mathys NV, Kolenbergstraat 23, B-3545 Zelem, Belgium Telephone no.: +32 (0) 13 460 200 Fax no.: +32 (0) 13 460 201

Tor Coatings Limited Unit 21, White Rose Way, Follingsby Park, Gateshead, Tyne & Wear, NE10 8YX United Kingdom Telephone no.: +44 (0) 191 4106611 Fax no.: +44 (0) 191 4920125 enquiries@tor-coatings.com

e-mail address of person : rpmeurohas@rustoleum.eu responsible for this SDS

#### 1.4 Emergency telephone number

#### National advisory body/Poison Centre

#### **Supplier**

Telephone number United Kingdom: : +44 870 8200418 / +44 2038073798 Great Britain

Hours of operation

: 24/7

## **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Product definition : Mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Met. Corr. 1, H290 Skin Irrit. 2, H315 Eye Dam. 1, H318

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

## **SECTION 2: Hazards identification**

2.2 Label elements	
Hazard pictograms	
Signal word	: Danger
Hazard statements	<ul> <li>H290 - May be corrosive to metals.</li> <li>H315 - Causes skin irritation.</li> <li>H318 - Causes serious eye damage.</li> </ul>
Precautionary statements	
General	: Not applicable.
Prevention	: P280 - Wear protective gloves. Wear eye or face protection.
Response	<ul> <li>P305 + P351 + P338, P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.</li> </ul>
Storage	: Not applicable.
Disposal	<ul> <li>P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.</li> </ul>
Hazardous ingredients	: alcohols, C12-14, ethoxylated sodium hydroxide
Supplemental label elements	: Not applicable.
Supplemental label elements : Detergents - Regulation (EC) No 907/2006	: For professional use only. This information is provided by the present Safety Data Sheet.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.
Special packaging requirem	<u>ents</u>
Containers to be fitted with child-resistant fastenings	: Not applicable.
Tactile warning of danger	: Not applicable.

#### 2.3 Other hazards

#### Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other hazards which do : None known. not result in classification

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

3.2 Mixtures : Mixture United Kingdom: Great Britain

Date of issue/Date of revision

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
tetrapotassium pyrophosphate	REACH #: 01-2119489369-18 EC: 230-785-7 CAS: 7320-34-5	≤5	Eye Irrit. 2, H319	-	[1]
2-butoxyethanol	REACH #: 01-2119475108-36 EC: 203-905-0 CAS: 111-76-2 Index: 603-014-00-0	≤3	Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 3, H331 Skin Irrit. 2, H315 Eye Irrit. 2, H319	ATE [Oral] = 1200 mg/kg ATE [Dermal] = 1100 mg/kg ATE [Inhalation (vapours)] = 3 mg/l	[1] [2]
alcohols, C12-14, ethoxylated	EC: 500-213-3 CAS: 68439-50-9	≤3	Acute Tox. 4, H302 Eye Dam. 1, H318 Aquatic Chronic 3, H412	ATE [Oral] = 500 mg/kg	[1]
sodium hydroxide	REACH #: 01-2119457892-27 EC: 215-185-5 CAS: 1310-73-2 Index: 011-002-00-6	≤1	Met. Corr. 1, H290 Skin Corr. 1A, H314 Eye Dam. 1, H318	Skin Corr. 1A, H314: $C \ge 5\%$ Skin Corr. 1B, H314: $2\% \le C < 5\%$ Skin Irrit. 2, H315: $0,5\% \le C < 2\%$ Eye Dam. 1, H318: $C \ge 2\%$ Eye Irrit. 2, H319: $0,5\% \le C < 2\%$	[1] [2]
			See Section 16 for the full text of the H statements declared above.		

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Туре

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

## **SECTION 4: First aid measures**

4.1 Description of first	aid measures
Eye contact	: Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
Inhalation	: Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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## **SECTION 4: First aid measures**

Skin contact	: Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

**Over-exposure signs/symptoms** 

Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains

#### 4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>
Specific treatments	: No specific treatment.

## **SECTION 5: Firefighting measures**

: Use an extinguishing agent suitable for the surrounding fire.
: None known.
from the substance or mixture
: In a fire or if heated, a pressure increase will occur and the container may burst.
: Decomposition products may include the following materials: carbon dioxide carbon monoxide phosphorus oxides metal oxide/oxides

## SECTION 5: Firefighting measures

5.3 Advice for firefighters	
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
Additional information	: No unusual hazard if involved in a fire.

## **SECTION 6: Accidental release measures**

6.1 Personal precautions, pro	tective equipment and emergency procedures
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
6.3 Methods and material for	containment and cleaning up

Small spill	: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Absorb spillage to prevent material damage. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Absorb spillage to prevent material damage. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.
6.4 Reference to other sections	: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

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

The information in this section contains generic advice and guidance.

#### 7.1 Precautions for safe handling

Protective measures	Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from acids. Empty containers retain product residue and can be hazardous. Do not reuse container. Absorb spillage to prevent material damage.
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## **SECTION 7: Handling and storage**

Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment
	before entering eating areas. See also Section 8 for additional information on
	hygiene measures.

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

Do not store below the following temperature: 10°C (50°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store in corrosive resistant container with a resistant inner liner. Store locked up. Separate from acids. Keep away from metals. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

#### 7.3 Specific end use(s)

Recommendations Industrial sector specific solutions

- : Not available.
- : Not available.

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

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

#### 8.1 Control parameters

#### **Occupational exposure limits**

#### **United Kingdom: Great Britain**

Product/ingredient name		Exposure limit values		
		EH40/2005 WELs (United Kingdom (UK), 8/2018). Absorbed through skin. STEL: 50 ppm 15 minutes. TWA: 25 ppm 8 hours. EH40/2005 WELs (United Kingdom (UK), 8/2018). STEL: 2 mg/m <sup>3</sup> 15 minutes.		
Recommended monitoring procedures	atmosphere or k of the ventilation protective equip the following: E the assessment limit values and atmospheres - C exposure to che (Workplace atm for the measure	ontains ingredients with exposure limits, personal, workplace biological monitoring may be required to determine the effectiveness or other control measures and/or the necessity to use respiratory ment. Reference should be made to monitoring standards, such as uropean Standard EN 689 (Workplace atmospheres - Guidance for of exposure by inhalation to chemical agents for comparison with measurement strategy) European Standard EN 14042 (Workplace Guide for the application and use of procedures for the assessment of mical and biological agents) European Standard EN 482 ospheres - General requirements for the performance of procedures ment of chemical agents) Reference to national guidance nethods for the determination of hazardous substances will also be		

#### **DNELs/DMELs**

Product/ingredient name	Туре	Exposure	Value	Population	Effects
outoxyethanol	DNEL	Short term Inhalation	426 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	38 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	49 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Inhalation	135 mg/m³	General population [Consumers]	Systemic
	DNEL	Short term Inhalation	50 mg/m³	General population [Consumers]	Local
	DNEL	Long term Dermal	75 mg/kg bw/day	General population [Consumers]	Systemic
	DNEL	Long term Inhalation	20 mg/m³	General population [Consumers]	Systemic
	DNEL	Long term Oral	3,2 mg/kg bw/day	General population [Consumers]	Systemic
	DNEL	Short term Dermal	44,5 mg/ kg bw/day	Workers	Systemic
	DNEL	Short term Oral	13,4 mg/ kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	123 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Oral	3,2 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	147 mg/m <sup>3</sup>	General population	Local
	DNEL	Long term Oral	6,3 mg/kg	General population	Systemic
	DNEL	Long term Inhalation	59 mg/m³	General population	Systemic
	DNEL	Short term Dermal	89 mg/kg	General population	Systemic
	DNEL	Short term Oral	26,7 mg/kg	General population	Systemic
	DNEL	Short term Inhalation	426 mg/m³	General	Systemic
	DNEL	Short term Inhalation	246 mg/m³	Workers	Local
	DNEL DNEL	Long term Dermal Long term Inhalation	125 mg/kg 98 mg/m³	Workers Workers	Systemic Systemic
	DNEL DNEL	Short term Dermal Short term	89 mg/m³ 1091 mg/	Workers Workers	Systemic Systemic
		Inhalation	m <sup>3</sup>		- ,

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#### **PNECs**

SECTION 8: Exposure controls/personal protection						
Product/ingredient name	Compartment Detail	Value	Method Detail			
2-butoxyethanol	Fresh water	8,8 mg/l	-			
	Marine	0,88 mg/l	-			
	Sewage Treatment	463 mg/l	-			
	Plant	-				
	Fresh water sediment	34,6 mg/kg	-			
	Marine water sediment	3,46 mg/kg	-			
	Secondary Poisoning	2,8 mg/kg	-			
	Soil	2,33 mg/kg	-			
	Secondary Poisoning	20 mg/kg	-			

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

Appropriate engineering controls	If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
Individual protection measures	
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. Use eye protection according to EN 166. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

#### **Skin protection**

8.2 Exposure controls

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

The breakthrough time must be greater than the end use time of the product.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Always ensure that gloves are free from defects and that they are stored and used correctly.

The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance. Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. > 8 hours (breakthrough time): nitrile rubber (0.5mm)
	The recommendation for the type or types of glove to use when handling this product is based on information from the following source: EN374. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.
Body protection	<ul> <li>Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: Wear overalls or long sleeved shirt. (EN 467)</li> </ul>

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

Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should approved by a specialist before handling this product.	be
Respiratory protection	Based on the hazard and potential for exposure, select a respirator that meets appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other impor aspects of use. Recommended: organic vapour filter (Type A) (EN 140)	
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to e they comply with the requirements of environmental protection legislation. In s cases, fume scrubbers, filters or engineering modifications to the process equi will be necessary to reduce emissions to acceptable levels.	ome

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

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

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

5.1 information on basic physical	a	iu chemical properties
Physical state	:	Liquid.
Colour	:	Yellow.
Odour	:	Solvent-like [Slight]
Odour threshold	;	Not available.
Melting point/freezing point	:	Not available.
Initial boiling point and boiling range	1	100°C (212°F) [Literature]
Flammability (solid, gas)	:	Not available.
Lower and upper explosion limit	:	Not available.
Flash point	:	Not relevant due to nature of the product.
Auto-ignition temperature	÷	Not relevant due to nature of the product.
Decomposition temperature	÷	Not available.
рН	÷	12,8 [Conc. (% w/w): 100%] [OECD 122]
pH : Justification	÷	Not available.
Viscosity	÷	Dynamic: <38 mPa·s [ISO 2431]
Solubility(ies)	1	
Not available.		
Solubility in water	:	Not available.
Miscible with water	:	Yes.
Partition coefficient: n-octanol/ water	:	Not applicable.

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#### Vapour pressure

	Vapour Pressure at 20°C			V	Vapour pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
water	23,8	3,2					
Evaporation rate	: Not	available.					
Relative density	: Not available.						
Density	: 1,03 g/cm³ [20°C (68°F)] [DIN 53217]						
/apour density	: Not available.						
Explosive properties	: No unusual hazard if involved in a fire.						
Dxidising properties	: Not available.						
Particle characteristics							
te of issue/Date of revision	: 18/04/2	2023 Date o	of previous issue	: 19/01/2023		Version : 6	9/1

## SECTION 9: Physical and chemical properties

Median particle size

: Not applicable.

SECTION 10: Stability and reactivity				
10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.			
10.2 Chemical stability	: The product is stable.			
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.			
10.4 Conditions to avoid	: No specific data.			
10.5 Incompatible materials	: Reactive or incompatible with the following materials: acids metals			
10.6 Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.			

## **SECTION 11: Toxicological information**

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

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
tetrapotassium LC50 Inhalation Dusts and pyrophosphate		Rat	>1,1 mg/l	4 hours
2-butoxyethanol	LC50 Inhalation Vapour	Rat	10 to 20 mg/l	4 hours
	LD50 Dermal	Rabbit	667 to 1000 mg/	-
			kg	
	LD50 Oral	Guinea pig	1414 mg/kg	-
	LD50 Oral	Guinea pig	1400 mg/kg	-
	LD50 Oral	Rat	1300 mg/kg	-
	LD50 Oral	Rat	1746 mg/kg	-
	LD50 Oral	Rat	1400 mg/kg	-
alcohols, C12-14,	LD50 Oral	Rat	300 to 2000 mg/	-
ethoxylated			kg	

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

#### Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
2-butoxyethanol	1200	1100	N/A	3	N/A
alcohols, C12-14, ethoxylated	500	N/A	N/A	N/A	N/A

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
2-butoxyethanol	Eyes - Moderate irritant	Rabbit		24 hours 100 milligrams	-
	Eyes - Severe irritant	Rabbit	-	100 milligrams	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-

#### **Conclusion/Summary**

Date of issue/Date of revision

# **SECTION 11: Toxicological information**

Skin	: Causes skin irritation.
Eyes	: Causes serious eye damage.
Respiratory	: Based on available data, the classification criteria are not met.
Sensitisation	
<b>Conclusion/Summary</b>	
Skin	: Based on available data, the classification criteria are not met.
Respiratory	: Based on available data, the classification criteria are not met.
<u>Mutagenicity</u>	
<b>Conclusion/Summary</b>	: Based on available data, the classification criteria are not met.
Carcinogenicity	
<b>Conclusion/Summary</b>	: Based on available data, the classification criteria are not met.
Reproductive toxicity	
<b>Conclusion/Summary</b>	: Based on available data, the classification criteria are not met.
Teratogenicity	
<b>Conclusion/Summary</b>	: Based on available data, the classification criteria are not met.
Specific target organ toxicit	<u>y (single exposure)</u>
Not available.	
Specific target organ toxicit	v (repeated exposure)
Not available.	<u>J Topoulou oxpoouloj</u>
Aspiration hazard	
Not available.	
Information on likely routes	: Not available.
of exposure	
Potential acute health effects	<u>2</u>
Eye contact	: Causes serious eye damage.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Causes skin irritation.
Ingestion	: No known significant effects or critical hazards.
O sector sector data data data data data data data dat	
	vsical, chemical and toxicological characteristics
Eye contact	<ul> <li>Adverse symptoms may include the following: pain</li> </ul>
	watering
	redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following:
	pain or irritation
	redness blistering may occur
Ingestion	: Adverse symptoms may include the following:
ingestion	stomach pains
Delayed and immediate effect	ts as well as chronic effects from short and long-term exposure
<u>Short term exposure</u>	
Potential immediate	: Not available.
effects	
Potential delayed effects	: Not available.
Long term exposure	
Date of issue/Date of revision	• 18/04/2023 Date of previous issue • 19/01/2023 Versio
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## **SECTION 11: Toxicological information**

Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health eff	ects
Not available.	
<b>Conclusion/Summary</b>	: Based on available data, the classification criteria are not met.
General	: No known significant effects or critical hazards.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.

#### **11.2 Information on other hazards**

**11.2.1 Endocrine disrupting properties** 

Not available.

#### **11.2.2 Other information**

Not available.

## **SECTION 12: Ecological information**

#### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
tetrapotassium pyrophosphate	Acute LC50 94 mg/l	Fish - Dreissena polymorpha	24 hours
2-butoxyethanol	Acute EC50 1700 to 1940 mg/l	Daphnia spec Daphnia magna	24 hours
, ,	Acute EC50 >1000 mg/l Fresh water	Daphnia spec Daphnia magna	48 hours
	Acute LC50 1000 mg/l Marine water	Crustaceans - Chaetogammarus marinus - Young	48 hours
	Acute LC50 1000 to 800000 μg/l Marine water	Crustaceans - Crangon crangon	48 hours
	Acute LC50 1490000 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	Acute LC50 1250000 µg/l Marine water	Fish - Menidia beryllina	96 hours
alcohols, C12-14, ethoxylated	Acute EC10 0,1 to 1 mg/l	Algae	72 hours

Conclusion/Summary

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

#### 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum	
2-butoxyethanol	OECD 301B OECD 301E -	90,4 % - Readily - 28 >70 % - Readily - 28 32,27 % - Inherent - 9	days -		
Conclusion/Summary					
Product/ingredient name	Aquatic half-lif	e	Photolysis	Biodegradability	

# Product/ingredient nameAquatic half-lifePhotolysisBiodegradability2-butoxyethanol--Readily

#### 12.3 Bioaccumulative potential

## **SECTION 12: Ecological information**

 Product/ingredient name	LogPow	BCF	Potential
2-butoxyethanol	0,81	3,2	low

#### 12.4 Mobility in soil

Soil/water partition coefficient (K <sub>oc</sub> )	: Not available.
Mobility	: Not available.

#### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

#### **12.6 Endocrine disrupting properties**

Not available.

#### 12.7 Other adverse effects

No known significant effects or critical hazards.

#### SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance.

#### 13.1 Waste treatment methods

#### Product

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Methods of disposal
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: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste : Yes.

#### European waste catalogue (EWC)

Waste code Waste designation				
20 01 29*	detergents containing hazardous substances			
Special precautions	: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt			

material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID number	UN1824	UN1824	UN1824	UN1824
14.2 UN proper shipping name	Sodium hydroxide solution	Sodium hydroxide solution	Sodium hydroxide solution	Sodium hydroxide solution
14.3 Transport hazard class(es)	8	8	8	8

## **SECTION 14: Transport information**

14.4 Packing group	Ш	Ш	III	Ш
14.5 Environmental hazards	No.	No.	No.	No.
Additional information	<u>Limited quantity</u> : ≤ 5L <u>Tunnel code</u> (E)		Emergency schedules F-A, S-B <u>Remarks</u> : ≤ 5L: Limited Quantity - IMDG 3.4	Quantity limitation Passenger and Cargo Aircraft: 5 L. Packaging instructions: 852. Cargo Aircraft Only: 60 L. Packaging instructions: 856. Limited Quantities - Passenger Aircraft: 1 L. Packaging instructions: Y 841.

14.6 Special precautions for	:	Transport within user's premises: always transport in closed containers that are
user		upright and secure. Ensure that persons transporting the product know what to do in
		the event of an accident or spillage.

14.7 Transport in bulk	: Not available.
according to IMO	
instruments	

## **SECTION 15: Regulatory information**

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

#### **Other EU regulations** VOC for Ready-for-Use : Not applicable. **Mixture** Industrial emissions : Not listed (integrated pollution prevention and control) -Air **Industrial emissions** : Not listed (integrated pollution prevention and control) -Water **United Kingdom: Great Britain** UK (GB) /REACH Annex XIV - List of substances subject to authorisation Annex XIV None of the components are listed. Substances of very high concern None of the components are listed. **Ozone depleting substances** Not listed. **Prior Informed Consent (PIC)** Not listed. **Persistent Organic Pollutants** Not listed.

## **SECTION 15: Regulatory information**

#### **Aerosol dispensers**

#### **Seveso Directive**

This product is not controlled under the Seveso Directive.

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Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

#### **International regulations**

#### Stockholm Convention on Persistent Organic Pollutants

List name	Ingredient name	Status
Not listed.		

#### **Rotterdam Convention on Prior Informed Consent (PIC)**

Not listed.

#### **UNECE Aarhus Protocol on POPs and Heavy Metals**

List name			Ingredient name	Status	
Not listed.					
<b>CN code</b> : 3402 90 90	00				
Inventory list					
Australia	1	All component	ts are listed or exempted.		
Canada	:	All component	All components are listed or exempted.		
China	:	All components are listed or exempted.			
Eurasian Economic Union	:	Russian Fede	Russian Federation inventory: Not determined.		
Japan	;		ory (CSCL): Not determined. ory (ISHL): Not determined.		
New Zealand	:	All component	All components are listed or exempted.		
Philippines	:	All component	ts are listed or exempted.		
Republic of Korea	:	All component	ts are listed or exempted.		
Taiwan	:	All component	ts are listed or exempted.		
Thailand	:	Not determined.			
Turkey	:	All components are listed or exempted.			
United States	:	Not determined.			
Viet Nam	:	Not determined	d.		
5.2 Chemical safety ssessment	:	This product co required.	ontains substances for which Chemical Safety	/ Assessments are still	

## **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

Abbreviations and acronyms	:	ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement N/A = Not available PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

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

SGG = Segregation Group

vPvB = Very Persistent and Very Bioaccumulative

#### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

C	Justification		
Met. Corr. 1, H290			Expert judgment
Skin Irrit. 2, H315 Eye Dam. 1, H318			Expert judgment Expert judgment
Full text of abbreviated H sta	tements		·
<u> United Kingdom: Great Brita</u>	in		
Full text of abbreviated H statements	H302 H H312 H H314 C H315 C H318 C H319 C H331 T	lay be corrosive to met armful if swallowed. armful in contact with s auses severe skin burr auses skin irritation. auses serious eye dan auses serious eye irrita oxic if inhaled. armful to aquatic life w	skin. ns and eye damage. nage.
Full text of classifications [CLP/GHS]	: Acute Tox. 3 Acute Tox. 4 Aquatic Chronic 3 Eye Dam. 1 Eye Irrit. 2 Met. Corr. 1 Skin Corr. 1A Skin Irrit. 2	SERIOUS EYE DAN SERIOUS EYE DAN CORROSIVE TO M SKIN CORROSION	<b>U</b>
Date of printing	: 18/04/2023		

Date of printing	. 10/04/2023
Date of issue/ Date of revision	: 18/04/2023
Date of previous issue	: 19/01/2023
Version	: 6
Notice to reader	

#### Notice to reader

IMPORTANT NOTE: The information in this Safety Data Sheet is based on the present state of knowledge and current legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications. The information contained in this data sheet (as may be amended from time to time) is not intended to be exhaustive and is presented in good faith and believed to be correct as of the date on which it is prepared. It is the user's responsibility to verify that this data sheet is current prior to using the product to which it relates. Persons using the information must make their own determinations as to the suitability of the relevant product for their purposes prior to use. Where those purposes are other than as specifically recommended in this safety data sheet, then the user uses the product at their own risk.

MANUFACTURER'S DISCLAIMER: the conditions, methods and factors affecting the handling, storage, application, use and disposal of the product are not under the control and knowledge of the manufacturer. Therefore the manufacturer does not assume responsibility for any adverse events which may occur in the handling, storage, application, use, misuse or disposal of the product and, so far as permitted by applicable law, the manufacturer expressly disclaims liability for any and all loss, damages and/or expenses arising out of or in any way connected to the storage, handling, use or disposal of the product. Safe handling, storage, use and disposal are the responsibility of the users. Users must comply with all applicable health and safety laws.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.