# MARBEC SRL Revision No. 10 0030662 – PULI FUGHE Printed on 02/12/2025 Page No. 1/ 18 Replaces revision:9 (Revision date: 06/14/2023)

# **Safety Data Sheet**

In accordance with Annex II of REACH - Regulation (EU) 2020/878

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

1.1. Product identifier

Code: 0030662
Name PULI FUGHE
Chemical name and synonyms PULI FUGHE

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

Sector of use SU22 – Professional uses SU21- Consumer uses

Product Category PC35 – Washing and cleaning products (including solvent-based products)

Description/Use alkaline cleaner for removing dirt anchored to the joints of ceramic floors

1.3. Details of the supplier of the safety data sheet

Company Name MARBEC SRL

Address CROCE ROSSA STREET 5/i
Location and State 51037 MONTALE (PISTOIA)

ITALY

tel. +039 0573/959848

e-mail of the competent person,

responsible for the safety data sheet info@marbec.it

### 1.4. Emergency telephone number

For urgent information please contact

MARBEČ srl

0573959848 8.30am-1pm 2pm-6pm or +393348578502 Telephone number of Poison Control Centers active 24/7

National Poisons Information Service (Birmingham Unit) +44 844 892 0111

### **SECTION 2. Hazards identification**

### 2.1. Classification of the substance or mixture

The product is classified as dangerous according to the provisions of Regulation (EC) 1272/2008 (CLP) (and subsequent amendments and adjustments). The product therefore requires a safety data sheet compliant with the provisions of Regulation (EU) 2020/878.

Any additional information regarding health and/or environmental risks is given in sections 11 and 12 of this sheet.

Classification and hazard statements:

Skin corrosion, category 1A H314 Causes severe skin burns and serious eye damage.

Serious eye damage, category 1 H318 Causes serious eye damage.

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### 2.2. Label elements

Hazard labelling pursuant to Regulation (EC) 1272/2008 (CLP) and subsequent amendments and adjustments.

Hazard pictograms:



Warnings: Danger

Hazard statements:

**H314** Causes severe skin burns and serious eye damage.

Precautionary advice:

P260 Do not breathe dust / fume / gas / mist / vapours / spray.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

insing.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

**P280** Wear protective gloves/clothing and eye/face protection.

P310 Contact a POISON CENTER / doctor immediately / . . .

P301+P330+P331 IF SWALLOWED: Rinse mouth. DO NOT induce vomiting.

**Contains:** Ethanolamine

Potassium hydroxide

# Ingredients compliant with Regulation (EC) No. 648/2004

Non-ionic surfactants <5%, anionic surfactants <5%, phosphates <5%

### 2.3. Other dangers

Based on available data, the product does not contain PBT or vPvB substances in percentage ≥ 0.1%.

The product does not contain substances with endocrine-disrupting properties in concentrations ≥ 0.1%.

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

### 3.2. Mixtures

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Contains:

Identification x = Conc. % Classification 1272/2008 (CLP)

POTASSIUM PYROPHOSPHATE

INDEX -  $3 \le x < 9$  Eye Irrit. 2 H319

EC 230-785-7 CAS 7320-34-5

REACH Reg. 01-2119489369-18

3-methoxy-3-methyl-1-butanol

INDEX -  $1 \le x < 3$  Eye Irrit. 2 H319

EC 260-252-4 CAS 56539-66-3

REACH Reg. 01-2119976333-33-

XXXX

**ETHANOLAMINE** 

INDEX 603-030-00-8 1 ≤ x < 3 Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332, Skin Corr. 1B

H314, Eye Dam. 1 H318, STOT SE 3 H335, Aquatic Chronic 3 H412

EC 205-483-3 STOT SE 3 H335: ≥ 5%

CAS 141-43-5 LD50 Oral: 1089 mg/kg, STA Dermal: 1100 mg/kg, STA Inhalation vapours:

11 mg/l

REACH Reg. 01-2119486455-28

1-METHOXY-2-PROPANOL

INDEX 603-064-00-3  $1 \le x < 3$  Flam. Liq. 3 H226, STOT SE 3 H336

EC 203-539-1 CAS 107-98-2

REACH Reg. 01-2119457435-35

sodium cumene sulfonate

INDEX -  $1 \le x < 3$  Eye Irrit. 2 H319

EC 248-983-7 CAS 28348-53-0

CAS 1310-58-3

REACH Reg. 01-2119489411-37-

0001

**POTASSIUM HYDROXIDE** 

INDEX 019-002-00-8  $1 \le x < 2$  Met. Corr. 1 H290, Acute Tox. 4 H302, Skin Corr. 1A H314, Eye Dam. 1 H318

EC 215-181-3 Skin Corr. 1B H314: ≥ 2% - < 5%, Skin Corr. 1C H314: ≥ 2% - < 5%, Skin Irrit.

2 H315: ≥ 0.5% - < 2%, Eye Dam. 1 H318: ≥ 2%, Eye Irrit. 2 H319: ≥ 0.5% - < 2%

STA Oral: 500 mg/kg

REACH Reg. 01-2119487136-33-

XXXX

The full text of the hazard statements (H) is given in section 16 of the sheet.

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# **SECTION 4. First aid measures**

### 4.1. Description of first aid measures

If in doubt or if you experience symptoms, contact a doctor and show this document.

THE

EYES: Remove any contact lenses. Wash immediately with plenty of water for at least 30/60 minutes, holding the eyelids wide open. Consult a doctor immediately.

SKIN: Remove contaminated clothing. Shower immediately. Seek medical attention immediately.

INGESTION: Drink as much water as possible. Seek medical attention immediately. Do not induce vomiting unless directed by a physician.

INHALATION: Call a doctor immediately. Move the person to fresh air, away from the accident site. If breathing stops, perform artificial respiration. Take appropriate precautions for the rescuer.

### 4.2. Main symptoms and effects, both acute and delayed

There is no specific information available on symptoms and effects caused by the product.

DELAYED EFFECTS: Based on the information currently available, there are no known cases of delayed effects following exposure to this product.

### 4.3. Indication of any need to immediately consult a doctor and require special treatment

Contact a POISON CENTER / doctor immediately / . . .

Means to have available in the workplace for specific and immediate treatment

Running water for washing skin and eyes.

# **SECTION 5. Fire-fighting measures**

### 5.1. Extinguishing media

SUITABLE EXTINGUISHING MEANS

Choose the most appropriate extinguishing media for the specific situation.

UNSUITABLE EXTINGUISHING MEANS

No one in particular.

### 5.2. Special hazards arising from the substance or mixture

HAZARDS DUE TO EXPOSURE IN CASE OF FIRE

The product is neither flammable nor combustible.

### 5.3. Recommendations for firefighters

EQUIPMENT

Normal firefighting clothing, such as open-circuit compressed air breathing apparatus (EN 137), flame-retardant overalls (EN469), flame-retardant gloves (EN 659) and firefighter's boots (HO A29 or A30).

# **SECTION 6. Accidental release measures**

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### 6.1. Personal precautions, protective equipment and emergency procedures

Stop the leak if it is safe to do so.

Wear appropriate protective equipment (including personal protective equipment as per section 8 of the safety data sheet) to prevent contamination of skin, eyes and personal clothing. These instructions apply to both workers and emergency responders.

#### 6.2. Environmental precautions

Prevent the product from entering sewers, surface water or groundwater.

### 6.3. Methods and materials for containment and remediation

Suck up the spilled product into a suitable container. Assess the compatibility of the container to be used with the product, checking section 10. Absorb the remainder with inert absorbent material.

Ensure adequate ventilation of the area affected by the spill. Disposal of contaminated material must be carried out in accordance with the provisions of point 13.

#### 6.4. Reference to other sections

Any information regarding personal protection and disposal is given in sections 8 and 13.

# **SECTION 7. Handling and storage**

### 7.1. Precautions for safe handling

Ensure adequate earthing for equipment and people. Avoid contact with eyes and skin. Do not inhale any dust or vapors or mists. Do not eat, drink or smoke during use. Wash hands after use. Avoid dispersing the product into the environment.

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

Store only in the original container. Store in a ventilated place, away from sources of ignition. Keep containers tightly closed. Keep the product in clearly labelled containers. Avoid overheating. Avoid violent impacts. Store containers away from any incompatible materials, checking section 10.

Storage class TRGS 510 (Germany): 8B

### 7.3. Specific end uses

Information not available

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

### 8.1. Control parameters

Regulatory references:

PRT

DEU Germany Forschungsgemeinschaft MAK- und BAT-Werte-Liste 2022 Ständige Senatskommission zur Prüfung

gesundheitsschädlicher Arbeitsstoffe Mitteilung 58

ESP Spain Professional exposure limits for chemical agents in Spain 2023

BETWEEN France Limits on professional exposure to chemical agents in France Decree n° 2021-1849 of 28 December 2021

ITA Italy Legislative Decree 9 April 2008, n,81

Italy Legislative Decree 9 April 2008, n.81
Portugal Decree-Lei n.º 1/2021 of 6 January, ii

Decree-Lei n.º 1/2021 of 6 January, indicative professional exposure limit values for chemical agents. Legislative Decree no. 35/2020 of 13 July, protection of workers against risks linked to exposure during

work with cancerous or mutagenic agents

GBR United Kingdom EH40/2005 Workplace exposure limits (Fourth Edition 2020)

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Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC. ACGIH 2023

TLV-ACGIH

Predicted no-effect conce	entration - PNEC							
Reference value in fresh	water			0.05	mg.	/I		
Reference value in sea w	0	mg	/I					
Reference value for water, intermittent release				0.5	mg	/I		
Reference value for STP	microorganisms			50	mg	/I		
Health - Derived No-	Effect Level - DNEL /	DMEL						
	Effects on consumers				Effects on workers			
Exposure Way	Sharp locals	Acute systemic	Chronic premises	Chronic systemic	Sharp locals	Acute systemic	Chronic premises	Chronic systemic
Oral			•	70 mg/kg bw/d		•	•	
Inhalation				0.68 mg/m3				2.79 mg/m3

Гуре	State	TWA/8h		STEL/15min		Notes / Observation	S	
		mg/m3	ppm	mg/m3	ppm			
AGW	DEU	0.5	0.2	0.5	0.2	SKIN	11	
MAKE	DEU	0.51	0.2	0.51	0.2			
VLA	ESP	2.5	1	7.5	3	SKIN		
VLEP	BETWEEN	2.5	1	7.6	3	SKIN		
VLEP	ITA	2.5	1	7.6	3	SKIN		
VLE	PRT	2.5	1	7.6	3	SKIN		
WELL	GBR	2.5	1	7.6	3	SKIN		
OEL	EU	2.5	1	7.6	3	SKIN		
TLV-ACGIH		7.5	3	15	6			
Predicted no-effect	t concentration - PNEC	·						
Reference value ir	n fresh water			0.085	mg/l			
Reference value ir	n sea water			0.0085	mg/l			
Reference value fo	or sediments in fresh w	ater		0.425	mg/l	кg		
Reference value fo	or sediments in seawat	er		0.0425	mg/l	кg		
Reference value for	or water, intermittent re	lease		0.025	mg/l			
Reference value fo	or STP microorganisms	3		100	mg/l			
Reference value fo	or the terrestrial compa	rtment		0.035	mg/l	(q		

Reference value for the te	errestrial compartment			0.035	mg	/kg		
Health - Derived No-E	Effect Level - DNEL /	DMEL						
	Effects on consumers				Effects on workers			
Exposure Way	Sharp locals	Acute systemic	Chronic premises	Chronic systemic	Sharp locals	Acute systemic	Chronic premises	Chronic systemic
Oral				3.75 mg/kg/d		-		•
Inhalation			2 mg/m3				3.3 mg/m3	
Dermal				0.24 mg/kg/d				1 mg/kg/day

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3-methoxy-3-methyl- Health - Derived No-	Effect Level		MEL						
		cts on sumers				Effects on workers			
Exposure Way		rp locals	Acute systemic	Chronic premises	Chronic systemic	Sharp locals	Acute systemic	Chronic premises	Chronic systemic
Oral				promise c	2.5 mg/kg bw/d				
Inhalation					4.4 mg/m3				18 mg/m3
Dermal					3.1 mg/kg bw/d				6.25 mg/kg bw/d
1-METHOXY-2-PROF									
Туре	State	TWA/8h	1		STEL/15min		Notes /		
		mg/m3		ppm	mg/m3	ppm	Observati	ons	
AGW	DEU	370		100	740	200			
MAKE	DEU	370		100	740	200			
VLA	ESP	375		100	568	150	SKIN		
VLEP	BETWEEN	188		50	375	100	SKIN		
VLEP	ITA	375		100	568	150	SKIN		
VLE	PRT	375		100	568	150	Oran v		
WELL	GBR	375		100	560	150	SKIN		
OEL	EU	375			568	150	SKIN		
	EU			100			SKIN		
TLV-ACGIH		184		50	368	100			
Health - Derived No-		- DNEL / D cts on	MEL			Effects on			
Exposure Way		sumers rp locals	Acute systemic	Chronic	Chronic	workers Sharp locals	Acute	Chronic	Chronic
	Silai	ip iocais	Acute systemic	premises	systemic	Sharp locals	systemic	premises	systemic
Oral				VND	3.3 mg/kg bw/d				
Inhalation				VND	43.9 mg/m3	553.5 mg/m3	VND		369 mg/m3
Dermal				VND	18.1 mg/kg bw/d		VND		50.6 mg/kg bw/d
	onate								
sodium cumene sulf		С							
	entration - PNE				0.23	mg/	l		
Predicted no-effect conce					0.23	ū			
Predicted no-effect concerns Reference value in fresh	water	elease			2.3	mg/	ļ		
Predicted no-effect concorned Reference value in fresh Reference value for water	water er, intermittent re								
Predicted no-effect conci Reference value in fresh Reference value for wate Reference value for STP	water er, intermittent re microorganism Effect Level Effect	ns - DNEL / D cts on	MEL		2.3	mg/ mg/			
Predicted no-effect concorned Reference value in fresh Reference value for wate Reference value for STP Health - Derived No-	water er, intermittent re microorganism Effect Level Effecons	ns - DNEL / D	MEL  Acute systemic	Chronic	2.3 100 Chronic	mg/	Acute	Chronic	Chronic
Predicted no-effect concorned Reference value in fresh Reference value for water Reference value for STP Health - Derived No-Exposure Way	water er, intermittent re microorganism Effect Level Effecons	ns - DNEL / D cts on sumers		Chronic premises	2.3 100 Chronic systemic	mg/ mg/ Effects on workers	l	Chronic premises	Chronic systemic
Predicted no-effect conci Reference value in fresh Reference value for wate Reference value for STP Health - Derived No- Exposure Way	water er, intermittent re microorganism Effect Level Effecons	ns - DNEL / D cts on sumers			2.3 100 Chronic systemic 3.8 mg/kg bw/d	mg/ mg/ Effects on workers	Acute		systemic
sodium cumene sulf Predicted no-effect conce Reference value in fresh Reference value for wate Reference value for STP Health - Derived No- Exposure Way Oral Inhalation	water er, intermittent re microorganism Effect Level Effecons	ns - DNEL / D cts on sumers			2.3 100 Chronic systemic 3.8 mg/kg	mg/ mg/ Effects on workers	Acute		

# POTASSIUM HYDROXIDE Threshold limit value

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Туре	State	TWA/8h		STEL/15min		Notes / Observations	
		mg/m3	ppm	mg/m3	ppm		
VLA	ESP			2			
VLEP	BETWEEN			2			
WELL	GBR			2			
TLV-ACGIH				2 (C)			

Health - Derived No-Effect	Health - Derived No-Effect Level - DNEL / DMEL								
	Effects on				Effects on				
	consumers				workers				
Exposure Way	Sharp locals	Acute systemic	Chronic	Chronic	Sharp locals	Acute	Chronic	Chronic	
			premises	systemic		systemic	premises	systemic	
Inhalation			1 ma/m3				1 mg/m3	_	

Legend:

(C) = CEILING; INALAB = Inhalable Fraction; RESPIR = Respirable Fraction; TORAC = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available; NEA = no exposure expected; NPI = no hazard identified; LOW = low hazard; MED = medium hazard; HIGH = high hazard.

### 8.2. Exposure controls

Considering that the use of appropriate technical measures should always take priority over personal protective equipment, ensure good ventilation in the workplace through effective local extraction.

When choosing personal protective equipment, seek advice from your chemical suppliers.

Personal protective equipment must bear the CE marking which certifies their compliance with current regulations.

Provide emergency shower with eye basin.

### HAND PROTECTION

Protect hands with category III work gloves.

For the final choice of work glove material (ref. EN 374 standard) the following must be considered: compatibility, degradation, permeation time.

In the case of preparations, the resistance of work gloves to chemical agents must be checked before use as it is not predictable. Gloves have a wear time that depends on the duration and method of use.

### SKIN PROTECTION

Wear long-sleeved work clothes and category III professional safety footwear (ref. Regulation 2016/425 and standard EN ISO 20344). Wash with soap and water after removing protective clothing.

### EYE PROTECTION

It is recommended to wear a hood visor or protective visor combined with airtight glasses (ref. standard EN ISO 16321).

### RESPIRATORY PROTECTION

Not necessary for normal use. If the threshold value (e.g. TLV-TWA) of the substance or one or more of the substances present in the product is exceeded (e.g. use in unventilated environments, formation of dust or aerosols), use respiratory protection equipped with a combined filter of the ABEK-P1 type, the class of which (1, 2 or 3) must be chosen in relation to the limit concentration of use. (ref. standard EN 14387).

The use of respiratory protection devices is necessary if the technical measures adopted are not sufficient to limit the worker's exposure to the threshold values taken into consideration.

In case the substance in question is odorless or its olfactory threshold is higher than the relevant TLV-TWA and in case of emergency, wear an open-circuit compressed air breathing apparatus (ref. standard EN 137) or an external air-supplied respirator (ref. standard EN 138). For the correct choice of respiratory protection device, refer to standard EN 529.

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### ENVIRONMENTAL EXPOSURE CONTROLS

Emissions from manufacturing processes, including those from ventilation equipment, should be monitored to comply with environmental protection legislation.

Information

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

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

**Property** Value Physical State liquid Color colorless characteristic Odor Melting or freezing point not available Initial boiling point not available Flammability incombustible Lower explosive limit not applicable Upper explosive limit not applicable Flash point > 60 °C not applicable Auto-ignition temperature Decomposition temperature not available 12

рΗ

not available Kinematic viscosity Solubility soluble in water Partition coefficient: n-octanol/water not available Vapor pressure not available Density and/or Relative Density 1.06 kg/l Relative vapor density not available Particle Characteristics not applicable

### 9.2. Other information

9.2.1. Information relating to physical hazard classes

Information not available

9.2.2. Other security features

VOC (Directive 2010/75/EU) 5.66% - 60.00 Explosive properties non-explosive Oxidizing properties non-oxidizing

g/liter

# **SECTION 10. Stability and reactivity**

### 10.1. Reactivity

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There are no particular dangers of reaction with other substances under normal conditions of use.

### 10.2. Chemical stability

The product is stable under normal conditions of use and storage.

### 10.3. Possibility of hazardous reactions

Exothermic reaction with strong acids.

#### 10.4. Conditions to avoid

As expected on 10.3

### 10.5. Incompatible materials

Information not available

### 10.6. Hazardous decomposition products

Does not decompose if used for intended purposes.

# **SECTION 11. Toxicological information**

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

Metabolism, kinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

### 1-METHOXY-2-PROPANOL

WORKERS: inhalation; skin contact.

POPULATION: ingestion of contaminated food or water; inhalation of ambient air; skin contact with products containing the substance.

Immediate, delayed and chronic effects resulting from short and long-term exposure

# 1-METHOXY-2-PROPANOL

The main route of entry is the skin, while the respiratory route is less important, given the low vapor pressure of the product. Above 100 ppm there is irritation of the ocular, nasal and oropharyngeal mucous membranes. At 1000 ppm there are disturbances in the balance and severe irritation to the eyes. Clinical and biological tests performed on exposed volunteers have not revealed anomalies. Acetate produces greater skin and eye irritation by direct contact. No chronic effects on humans are reported.

### Interactive effects

Information not available

### ACUTE TOXICITY

ATE (Inhalation - vapors) of the mixture: > 20 mg/l
ATE (Oral) of the mixture: >2000 mg/kg
ATE (Cutaneous) of the mixture: >2000 mg/kg

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POTASSIUM PYROPHOSPHATE

 LD50 (Dermal):
 > 2000 mg/kg Rabbit

 LD50 (Oral):
 > 2000 mg/kg Rat

 LC50 (Inhalation of mists/dusts):
 > 1.1 mg/l/4h rat

ETHANOLAMINE

LD50 (Dermal):

STA (Cutaneous): 1100 mg/kg estimate from Table 3.1.2 of Annex I of CLP

(data used for the calculation of the estimate of the acute toxicity of the

mixture) 1089 mg/kg Rat

2504 mg/kg

LD50 (Oral): 1089 mg/kg Rat LC50 (Inhalation of vapours): > 1.3 mg/l/6h Rat

STA (Inhalation of vapors): 11 mg/l estimate from Table 3.1.2 of Annex I of CLP

(data used for the calculation of the estimate of the acute toxicity of the

mixture)

3-methoxy-3-methyl-1-butanol

LD50 (Dermal): > 2000 mg/kg Rat LD50 (Oral): 4400 mg/kg Female rat

1-METHOXY-2-PROPANOL

 LD50 (Dermal):
 > 2000 mg/kg Rabbit

 LD50 (Oral):
 4016 mg/kg Rat

 LC50 (Inhalation of vapours):
 > 7000 mg/l/4h Rat

sodium cumene sulfonate

LD50 (Dermal): > 2000 mg/kg LD50 (Oral): > 7000 mg/kg

POTASSIUM HYDROXIDE

LD50 (Oral): 333 mg/kg Rat

STA (Oral): 500 mg/kg estimate from Table 3.1.2 of Annex I of CLP

(data used for the calculation of the estimate of the acute toxicity of the

mixture)

### SKIN CORROSION / SKIN IRRITATION

Corrosive to the skin

Classification based on the experimental value of the pH

### SERIOUS EYE DAMAGE / EYE IRRITATION

Causes serious eye damage

### RESPIRATORY OR SKIN SENSITIZATION

Does not meet the classification criteria for this hazard class

### GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

### CARCINOGENICITY

Does not meet the classification criteria for this hazard class

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### REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

### SPECIFIC TARGET ORGAN TOXICITY (STOT) - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

### SPECIFIC TARGET ORGAN TOXICITY (STOT) - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

### DANGER IN CASE OF ASPIRATION

Does not meet the classification criteria for this hazard class

#### 11.2. Information on other hazards

Based on available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with effects on human health under evaluation.

# **SECTION 12. Ecological information**

Use according to good working practices, avoiding dispersal of the product into the environment. Notify the competent authorities if the product has reached water courses or if it has contaminated the soil or vegetation.

# 12.1. Toxicity

### 1-METHOXY-2-PROPANOL

The product is most likely not harmful to aquatic organisms. Correct introduction of low concentrations into a biological purification plant should not compromise the degradation activity of activated sludge.

ETHANOLAMINE

NOEC Chronic Fish

1.2 mg/l Oryzias latipes

NOEC Chronic Crustaceans

0.85 mg/l Daphnia magna

1-METHOXY-2-PROPANOL

LC50 - Fish > 6800 mg/l/96h leuciscus idus EC50 - Crustaceans 23300 mg/l/48h daphnia magna

POTASSIUM PYROPHOSPHATE

 $LC50 - Fish $$> 100 \ mg/l/96h \ oncorynchus \ mykiss $$ EC50 - Crustaceans $$> 100 \ mg/l/48h \ daphnia \ magna $$$ 

EC50 - Algae / Aquatic Plants > 100 mg/l/72h algae

NOEC Chronic Fish 100 mg/l oncorynchus mykiss

Chronic NOEC Algae / Aquatic Plants > 100 mg/l algae

sodium cumene sulfonate

 LC50 - Fish
 > 1000 mg/l/96h

 EC50 - Crustaceans
 > 1000 mg/l/48h

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EC50 - Algae / Aquatic Plants 310 mg/l/72h

3-methoxy-3-methyl-1-butanol

LC50 - Fish > 100 mg/l/96h Oryzias latipes
EC50 - Crustaceans > 1000 mg/l/48h Daphnia Magna

EC50 - Algae / Aquatic Plants > 1000 mg/l/72h Raphidocelis subcapitata

### 12.2. Persistence and degradability

### 1-METHOXY-2-PROPANOL

Biodegradability and elimination assessment (H2O): Readily biodegradable (according to OECD criteria). Disposal considerations: 90-100% (28 days) (OECD 301E/92/96/EEC, C 4-B) (aerobic, municipal wastewater treatment plant effluent). In water, hydrolytic stability has not been determined but rapid biodegradability was found (96% degraded in 28 days). OECD 301E test. Atmospheric vapour photodegraded rapidly (half-life <1 day)

POTASSIUM HYDROXIDE

Solubility in water > 10000 mg/l

Degradability: data not available

**ETHANOLAMINE** 

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

1-METHOXY-2-PROPANOL

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

POTASSIUM PYROPHOSPHATE

Solubility in water > 10000 mg/l

Degradability: data not available

sodium cumene sulfonate

Rapidly degradable

3-methoxy-3-methyl-1-butanol

Rapidly degradable

# 12.3. Bioaccumulative potential

ETHANOLAMINE

Partition coefficient: n-octanol/water -2.3

1-METHOXY-2-PROPANOL

Partition coefficient: n-octanol/water < 1

sodium cumene sulfonate

Partition coefficient: n-octanol/water 1.1 Log Kow

3-methoxy-3-methyl-1-butanol

Partition coefficient: n-octanol/water 0.18

### 12.4. Mobility in soil

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Information not available

### 12.5. Results of PBT and vPvB assessment

Based on available data, the product does not contain PBT or vPvB substances in percentage ≥ 0.1%.

### 12.6. Endocrine disrupting properties

# POTASSIUM PYROPHOSPHATE

Ecology - water: Product that does not present any particular risks for the environment. Phosphate is a nutrient for plants and therefore can promote the growth of phytoplankton in water.

Based on available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with effects on the environment under evaluation.

### 12.7. Other adverse effects

Information not available

# **SECTION 13. Disposal Considerations**

#### 13.1. Waste treatment methods

Reuse, if possible. Product residues are to be considered hazardous special waste. The hazardousness of wastes containing part of this product must be assessed according to the current legislative provisions.

Disposal must be entrusted to a company authorised to manage waste, in compliance with national and, where applicable, local legislation.

The transport of waste may be subject to ADR.

### CONTAMINATED PACKAGING

Contaminated packaging must be sent for recovery or disposal in compliance with national waste management regulations.

# **SECTION 14. Transport information**

### 14.1. UN number or ID number

ADR / RID, IMDG, IATA: UN 1760

### 14.2. UN official shipping name

ADR / RID: CORROSIVE LIQUID, NOS (2-aminoethanol, potassium hydroxide)

IMDG: CORROSIVE LIQUID, NOS (ethanolamine, potassium hydroxide)

IATA: CORROSIVE LIQUID, NOS (ethanolamine, potassium hydroxide)

### 14.3. Transport hazard classes

ADR / RID: Class: 8 Label: 8

IMDG: Class: 8 Label: 8



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IATA: Class: 8 Label: 8



# 14.4. Packing group

ADR / RID, IMDG, IATA: Ш

### 14.5. Environmental hazards

ADR / RID: NO

IMDG: non-marine pollutant

IATA: NO

### 14.6. Special precautions for users

ADR / RID: HIN - Kemler: 80 Limited Tunnel

Quantities: 5 restriction code: (E)

Special provision: 274

EMS: FA, SB Limited

Quantities: 5

Special provision:

Cargo:

Maximum Packaging quantity: 60 L

Instructions: 856

Passengers: Maximum

Packaging quantity: 5 L Instructions:

852

A3, A803

### 14.7. Bulk maritime transport in accordance with IMO acts

Irrelevant information

IMDG:

IATA:

# **SECTION 15. Regulatory Information**

### 15.1. Legislative and regulatory provisions on health, safety and environment specific for the substance or mixture

Seveso Category - Directive 2012/18/EU: None

Restrictions relating to the product or the substances contained in accordance with Annex XVII of Regulation (EC) 1907/2006

Product

Point 3 - 40

Substances contained

Point 75

Regulation (EU) 2019/1148 - on the placing on the market and use of explosives precursors

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not applicable

Substances in Candidate List (Art. 59 REACH)

Based on available data, the product does not contain SVHC substances in percentage ≥ 0.1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to export notification requirement Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Health Checks

Workers exposed to this chemical agent which is hazardous to health must be subjected to health surveillance carried out in accordance with the provisions of art. 41 of Legislative Decree 81 of 9 April 2008 unless the risk to the safety and health of the worker has been assessed as irrelevant, in accordance with the provisions of art. 224 paragraph 2.

### 15.2. Chemical safety assessment

A chemical safety assessment has been developed for the following substances in the mixture:

Potassium pyrophosphate, Ethanolamine, 3-methoxy-3-methyl-1-butanol, Sodium cumenesulfonate, Potassium hydroxide, 1-Methoxy-2-propanol.

### **SECTION 16. Other information**

Text of the hazard statements (H) cited in sections 2-3 of the sheet:

Flam. Liq. 3 Flammable liquid, category 3

Met. Corr. 1 Substance or mixture corrosive to metals, category 1

Acute Tox. 4

Skin Corr. 1A

Skin corrosion, category 1A

Skin Corr. 1B

Skin corrosion, category 1B

Skin Corr. 1C

Skin corrosion, category 1C

Eye Dam. 1

Serious eye damage, category 1

Eye Irrit. 2 Eye irritation, category 2
Skin Irrit. 2 Skin irritation, category 2

STOT SE 3 Specific target organ toxicity - single exposure, category 3

Aquatic Chronic 3 Hazardous to the aquatic environment, chronic toxicity, category 3

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H226 Flammable liquid and vapour.
H290 May be corrosive to metals.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.

H332 Harmful if inhaled.

H314 Causes severe skin burns and serious eye damage.

H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H315 Causes skin irritation.
H335 May irritate respiratory tract.
H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

#### LEGEND:

- ADR: European Agreement concerning the carriage of dangerous goods by road
- ATE / STA: Acute Toxicity Estimation
- CAS: Chemical Abstract Service Number
- CE: Identification number in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EC50: Concentration that produces an effect in 50% of the test population
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of Classification and Labelling of Chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulations
- IC50: Immobilization concentration of 50% of the test population
- IMDG: International Maritime Dangerous Goods Code
- IMO: International Maritime Organization
- INDEX: Identification number in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent, bioaccumulative and toxic
- PEC: Predicted environmental concentration
- PEL: Predicted exposure level
- PMT: Persistent, mobile and toxic
- PNEC: Predicted No Effect Concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulations for the international carriage of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time Weighted Average Exposure Limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic compound
- vPvB: Very Persistent and Very Bioaccumulative
- vPvM: Very persistent and very mobile
- WGK: Water hazard class (Germany).

### GENERAL BIBLIOGRAPHY:

- 1. Regulation (EC) 1907/2006 of the European Parliament (REACH)
- 2. Regulation (EC) 1272/2008 of the European Parliament and of the Council (CLP)
- 3. Regulation (EU) 2020/878 (Annex II REACH Regulation)
- 4. Regulation (EC) 790/2009 of the European Parliament (I Atp. CLP)
- 5. Regulation (EU) 286/2011 of the European Parliament (II Atp. CLP)
- 6. Regulation (EU) 618/2012 of the European Parliament (III Atp. CLP)
- 7. Regulation (EU) 487/2013 of the European Parliament (IV Atp. CLP)
- 8. Regulation (EU) 944/2013 of the European Parliament (V Atp. CLP)
- 9. Regulation (EU) 605/2014 of the European Parliament (VI Atp. CLP)

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- 10. Regulation (EU) 2015/1221 of the European Parliament (VII Atp. CLP)
- 11. Regulation (EU) 2016/918 of the European Parliament (VIII Atp. CLP)
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP) 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2019/521 (XII Atp. CLP)
- 16. Delegated Regulation (EU) 2018/1480 (XIII Atp. CLP)
- 17. Regulation (EŬ) 2019/1148
- 18. Delegated Regulation (EU) 2020/217 (XIV Atp. CLP)
- 19. Delegated Regulation (EU) 2020/1182 (XV Atp. CLP)
- 20. Delegated Regulation (EU) 2021/643 (XVI Atp. CLP)
- 21. Delegated Regulation (EU) 2021/849 (XVII Atp. CLP)
- 22. Delegated Regulation (EU) 2022/692 (XVIII Atp. CLP)
- 23. Delegated Regulation (EU) 2023/707
- 24. Delegated Regulation (EU) 2023/1434 (XIX Atp. CLP)
- 25. Delegated Regulation (EU) 2023/1435 (XX Atp. CLP)
- The Merck Index. 10th Edition
   Chemical Safety Handling
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- NI Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS Website
- ECHA Agency Website
- Database of SDS models of chemical substances Ministry of Health and Istituto Superiore di Sanità

#### Note for user:

The information contained in this sheet is based on the knowledge available to us at the date of the last version. The user must ensure the suitability and completeness of the information in relation to the specific use of the product.

This document should not be construed as a guarantee of any specific property of the product.

Since the use of the product is not under our direct control, it is the user's obligation to observe under his own responsibility the laws and provisions in force regarding hygiene and safety. We assume no responsibility for improper use. Provide adequate training to personnel involved in the use of chemicals.

### CLASSIFICATION CALCULATION METHODS

Chemical-physical hazards: The classification of the product was derived from the criteria established by the CLP Regulation Annex I Part 2. The methods for evaluating the chemical-physical properties are reported in section 9.

Health hazards: The classification of the product is based on the calculation methods in Annex I of CLP Part 3, unless otherwise indicated in section 11. Environmental hazards: The classification of the product is based on the calculation methods in Annex I of CLP Part 4, unless otherwise indicated in section

Changes from the previous revision Changes have been made to the following sections: 03 / 04 / 08 / 09 / 11 / 12 / 14 / 16.