Safety Data Sheet

According to Annex II to REACH - Regulation (EU) 2020/878 and to Annex II to UK REACH

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

1.1. Product identifier

Code: **VRCS000XPSTA0010**
Product name **SA PU CLEANER**

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

Intended use **Intensive multi-purpose neutral detergent for resin and microcement floors**

Identified Uses	Industrial	Professional	Consumer
Cleaning of hard surfaces	✓	✓	✓

1.3. Details of the supplier of the safety data sheet

Name **Stone Age B.V.**
Full address **Butaanstraat 10**
District and Country **7463PG RIJSSEN (OV)**
NETHERLANDS
Tel. +31548 544 449

e-mail address of the competent person responsible for the Safety Data Sheet **info@stoneage.nl**

1.4. Emergency telephone number

For urgent inquiries refer to **Poison centers:**
Cyprus-1401

Denmark- Danish Poison Center (Giftlinjen): +45 8212 1212

Estonia- Estonian Poisoning Information 16662

Finland- Tel. 09 471 977 Or +358 09 4711

Latvia- 1. Valsts ugunsdzēsības un glābšanas dienests, phone number: 112.
2. Toksikoloģijas un sepses klīnikas Saindēšanās un zāļu informācijas centrs, Hipokrāta 2, Rīga, Latvija, LV-1038, phone number +371 67042473

Lithuania- Apsinuodijimų informacijos biuras"visto parą: tel. +370 (5) 236 2052

Malta- 112

Belgium
Belgian Poisono Centre number: 070 245 245
Available 24h/24

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is not classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP).
However, since the product contains hazardous substances in concentrations such as to be declared in section no. 3, it requires a safety data sheet with appropriate information, compliant to (EU) Regulation 2020/878.

Hazard classification and indication: --

2.2. Label elements

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

SECTION 2. Hazards identification ... / >>

Hazard pictograms: --

Signal words: --

Hazard statements:

EUH210 Safety data sheet available on request.

Precautionary statements:

P102 Keep out of reach of children.

P101 If medical advice is needed, have product container or label at hand.

Ingredients (Regulation 648/2004)

Less than 5% Non-ionic surfactants, Polycarboxylates

Perfumes

AMYL SALICYLATE, ALPHA ISOMETHYL IONONE, HEXAMETHYLINDANOPYRAN, HEXYL CINNAMAL, TETRAMETHYL ACETYLOCTAHYDRONAPHTHALENES, HYDROXYCITRONELLAL

Preservation agents: PHENOXYETHNOL

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

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

SECTION 3. Composition/information on ingredients

3.1. Substances

Information not relevant

3.2. Mixtures

Contains:

Identification		x = Conc. %	Classification (EC) 1272/2008 (CLP)
ethanol			
INDEX	*603-002-00-5*	3 ≤ x < 6	**Flam. Liq. 2 H225, Eye Irrit. 2 H319**
EC	*200-578-6*		
CAS	*64-17-5*		
REACH Reg.	*01-2119457610-43-XXXX*		
(2-methoxymethylethoxy)propanol			
INDEX		0,5 ≤ x < 1	**Substance with a community workplace exposure limit.**
EC	*252-104-2*		
CAS	*34590-94-8*		
REACH Reg.	*01-2119450011-XXXX*		
ethanolamine			
INDEX	*603-030-00-8*	0 < x < 0,5	**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, ATE Dermal: 1100 mg/kg, ATE Inhalation vapours: 11 mg/l**
REACH Reg.	*01-2119486455-28-XXXX*		
toluene			
INDEX	*601-021-00-3*	0 < x < 0,5	**Flam. Liq. 2 H225, Repr. 2 H361d, Asp. Tox. 1 H304, STOT RE 2 H373, Skin Irrit. 2 H315, STOT SE 3 H336, Aquatic Chronic 3 H412**
EC	*203-625-9*		
CAS	*108-88-3*		
REACH Reg.	*01-2119471310-51-XXXX*		
acetone			
INDEX	*606-001-00-8*	0 < x < 0,5	**Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066**
EC	*200-662-2*		
CAS	*67-64-1*		
REACH Reg.	*01-2119471330-49-XXXX*		

SECTION 3. Composition/information on ingredients ... / >>

BENZENE
INDEX *601-020-00-8* 0 < x < 0,1 **Flam. Liq. 2 H225, Carc. 1A H350, Muta. 1B H340, STOT RE 1 H372, Asp. Tox. 1 H304, Eye Irrit. 2 H319, Skin Irrit. 2 H315**
EC *200-753-7*
CAS *71-43-2*
REACH Reg. *01-2119496063-37-XXXX*

METHANOL
INDEX *603-001-00-X* 0 < x < 0,5 **Flam. Liq. 2 H225, Acute Tox. 3 H301, Acute Tox. 3 H311, Acute Tox. 3 H331, STOT SE 1 H370**
EC *200-659-6* **STOT SE 2 H371: ≥ 3% - < 10%**
CAS *67-56-1* **ATE Oral: 100 mg/kg, ATE Dermal: 300 mg/kg, ATE Inhalation vapours: 3 mg/l**
REACH Reg. *01-2119433307-44-XXXX*

2-(2-butoxyethoxy)ethanol
INDEX *603-096-00-8* 0 < x < 0,5 **Eye Irrit. 2 H319**
EC *203-961-6*
CAS *112-34-5*
REACH Reg. *01-2119475104-44-XXXX*

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures

4.1. Description of first aid measures

No effects requiring implementation of special first aid measures are expected. The following information represents practical indications of correct behaviour in the event of contact with a chemical product, even if not hazardous.
In case of doubt or in the presence of symptoms contact a doctor and show him this document.
In case of more severe symptoms, ask for immediate medical aid.
EYES: Remove, if present, contact lenses if the situation allows you to do so easily. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. Get medical advice/attention.
SKIN: Take off contaminated clothing. Wash immediately and thoroughly with running water (and soap if possible). Get medical advice. Avoid further contact with contaminated clothing.
INGESTION: Do not induce vomiting unless explicitly authorised by a doctor. Do not give anything by mouth to an unconscious person. Get medical advice/attention.
INHALATION: Remove victim to fresh air, away from the accident scene. Get medical advice/attention.

Rescuer protection

It is good practice for rescuers lending support to a person who has been exposed to a chemical substance or to a mixture to wear personal protective equipment. The nature of such protection depends on the hazard level of the substance or mixture, on the type of exposure and on the extent of the contamination. In the absence of other more specific indications, use of disposable gloves in the event of possible contact with body fluids is recommended. For the type of PPE suitable for the characteristics of the substance or mixture, see section 8.

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

Specific information on symptoms and effects caused by the product are unknown.

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 immediate medical attention and special treatment needed

If symptoms occur, whether acute or delayed, consult a doctor.

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

Running water for skin and eye wash.

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT
Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.
UNSUITABLE EXTINGUISHING EQUIPMENT
Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent

SECTION 5. Firefighting measures ... / >>

explosions.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE
Excess pressure may form in containers exposed to fire at a risk of explosion. Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION
Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.
SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS
Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.
Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.
Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

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

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory references:

BGR	България	НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г. ЗА ЗАЩИТА НА РАБОТЕЩИТЕ ОТ РИСКОВЕ, СВЪРЗАНИ С ЕКСПОЗИЦИЯ НА ХИМИЧНИ АГЕНТИ ПРИ РАБОТА (изм. ДВ. бр.5 от 17 Януари 2020г.)
CZE	Česká Republika	NAŘÍZENÍ VLÁDY ze dne 10. května 2021, kterým se mění nařízení vlády č. 361/2007 Sb., kterým se stanoví podmínky ochrany zdraví při práci
DEU	Deutschland	Forschungsgemeinschaft MAK- und BAT-Werte-Liste 2022 Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe Mitteilung 58
ESP	España	Límites de exposición profesional para agentes químicos en España 2023
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en FranceDécret n° 2021-1849 du 28 décembre 2021
GRC	Ελλάδα	Π.Δ. 26/2020 (ΦΕΚ 50/Α` 6.3.2020) Εναρμόνιση της ελληνικής νομοθεσίας προς τις διατάξεις των οδηγιών 2017/2398/ΕΕ, 2019/130/ΕΕ και 2019/983/ΕΕ «για την τροποποίηση της οδηγίας 2004/37/ΕΚ ’’σχετικά με την προστασία των εργαζομένων από τους κινδύνους που συνδέονται με την έκθεση σε καρκινογόνους ή μεταλλαξιγόνους παράγοντες κατά την εργασία’’»
HUN	Magyarország	Az innovációért és technológiáért felelős miniszter 5/2020. (II. 6.) ITM rendelete a kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
NOR	Norge	Forskrift om endring i forskrift om tiltaksverdier og grenseverdier for fysiske og kjemiske faktorer i arbeidsmiljøet samt smitterisikogrupper for biologiske faktorer (forskrift om tiltaks- og grenseverdier), 21. august 2018 nr. 1255
NLD	Nederland	Arbeidsomstandighedenregeling. Lijst van wettelijke grenswaarden op grond van de artikelen 4.3, eerste lid, en 4.16, eerste lid, van het Arbeidsomstandighedenbesluit
PRT	Portugal	Decreto-Lei n.º 1/2021 de 6 de janeiro, valores-limite de exposição profissional indicativos para os agentes químicos. Decreto-Lei n.º 35/2020 de 13 de julho, proteção dos trabalhadores contra os riscos ligados à exposição durante o trabalho a agentes cancerígenos ou mutagénicos
POL	Polska	Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy
ROU	România	Hotărârea nr. 53/2021 pentru modificarea hotărârii guvernului nr. 1.218/2006, precum și pentru modificarea și completarea hotărârii guvernului nr. 1.093/2006
RUS	Россия	ПОСТАНОВЛЕНИЕ от 13 февраля 2018 г. N 25 ОБ УТВЕРЖДЕНИИ ГИГИЕНИЧЕСКИХ НОРМАТИВОВ ГН 2.2.5.3532-18 "ПРЕДЕЛЬНО ДОПУСТИМЫЕ КОНЦЕНТРАЦИИ (ПДК) ВРЕДНЫХ ВЕЩЕСТВ В ВОЗДУХЕ РАБОЧЕЙ ЗОНЫ"
SWE	Sverige	Hygieniska gränsvärden, Arbetsmiljöverkets föreskrifter och allmänna råd om hygieniska gränsvärden (AFS 2018:1)
SVK	Slovensko	NARIADENIE VLÁDY Slovenskej republiky z 12. augusta 2020, ktorým sa mení a dopĺňa nariadenie vlády Slovenskej republiky č. 356/2006 Z. z. o ochrane zdravia zamestnancov pred rizikami súvisiacimi s expozíciou karcinogénnym a mutagénnym faktorom pri práci v znení neskorších predpisov
SVN	Slovenija	Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu (Uradni list RS, št. 100/01, 39/05, 53/07, 102/10, 43/11 – ZVZD-1, 38/15, 78/18 in 78/19)
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
EU	OEL EU	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.
	TLV-ACGIH	ACGIH 2023

SECTION 8. Exposure controls/personal protection ... / >>

2-(2-butoxyethoxy)ethanol

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	67,5	10	101,2	15	
TLV	CZE	70	10,36	100	14,8	
AGW	DEU	67	10	100,5	15	Hinweis, 11
MAK	DEU	67	10	100,5	15	Hinweis
VLA	ESP	67,5	10	101,2	15	
VLEP	FRA	67,5	10	101,2	15	
TLV	GRC	67,5	10	101,2	15	
AK	HUN	67,5	10	101,2	15	
VLEP	ITA	67,5	10	101,2	15	
TLV	NOR	68	10			
TGG	NLD	50		100		SKIN
VLE	PRT	67,5	10	101,2	15	
NDS/NDSCh	POL	67		100		
TLV	ROU	67,5	10	101,2	15	
ПДК	RUS			5		п
NGV/KGV	SWE	68	10	101	15	
NPEL	SVK	67,5	10	101,2	15	
MV	SVN	67,5	10	101,2	15	
WEL	GBR	67,5	10	101,2	15	
OEL	EU	67,5	10	101,2	15	
TLV-ACGIH		66	10			INHAL

Predicted no-effect concentration - PNEC

Normal value in fresh water	1,1	mg/l
Normal value in marine water	11	mg/l
Normal value for fresh water sediment	4,4	mg/kg
Normal value for marine water sediment	440	µg/kg
Normal value for marine water, intermittent release	110	µg/L
Normal value of STP microorganisms	NPI	
Normal value for the food chain (secondary poisoning)	56	mg/kg
Normal value for the terrestrial compartment	320	µg/kg
Normal value for the atmosphere	NPI	

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		NPI		6,25 mg/kg				
Inhalation		NPI	LOW	NPI	101,2 mg/m³	NPI	67,5 mg/m³	NPI
Skin		NPI	NPI	NPI	NPI	NPI	LOW	NPI

SECTION 8. Exposure controls/personal protection ... / >>

ethanol

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	1000				
TLV	CZE	1000	522	3000	1566	
AGW	DEU	380	200	1520	800	
MAK	DEU	380	200	1520	800	
VLA	ESP			1910	1000	
VLEP	FRA	1900	1000	9500	5000	
TLV	GRC	1900	1000			
AK	HUN	1900	1000	3800	2000	
TLV	NOR	950	500			
TGG	NLD	260		1900		SKIN
NDS/NDSCh	POL	1900				
TLV	ROU	1900	1000	9500	5000	
ПДК	RUS	1000		2000		п
NGV/KGV	SWE	1000	500	1900 (C)	1000 (C)	
NPEL	SVK	960	500	1920	1000	
MV	SVN	960	500	1920	1000	
WEL	GBR	1920	1000			
TLV-ACGIH				1884	1000	

Predicted no-effect concentration - PNEC

Normal value in fresh water	960	µg/L
Normal value in marine water	2,75	mg/l
Normal value for fresh water sediment	3,6	mg/kg
Normal value for marine water sediment	2,9	mg/kg
Normal value for water, intermittent release	2,75	mg/l
Normal value for marine water, intermittent release	790	µg/L
Normal value of STP microorganisms	580	mg/l
Normal value for the food chain (secondary poisoning)	380	mg/kg
Normal value for the terrestrial compartment	630	µg/kg
Normal value for the atmosphere	NPI	

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		NPI		87,0 mg/kg				
Inhalation		NPI	NPI	114,0 mg/m³	1,0 900	NPI	NPI	380,0 mg/m³
Skin		NPI	NPI	206,0 mg/kg	NPI	NPI	NPI	343,0 mg/kg

SECTION 8. Exposure controls/personal protection ... / >>

ethanolamine

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
TLV	BGR	2,5	1	7,6	3	SKIN	
TLV	CZE	2,5	0,985	7,5	2,955		
AGW	DEU	0,5	0,2	0,5	0,2	SKIN	11
MAK	DEU	0,51	0,2	0,51	0,2		
VLA	ESP	2,5	1	7,5	3	SKIN	
VLEP	FRA	2,5	1	7,6	3	SKIN	
TLV	GRC	2,5	1	7,6	3		
AK	HUN	2,5	1	7,6	3	SKIN	
VLEP	ITA	2,5	1	7,6	3	SKIN	
TLV	NOR	2,5	1			SKIN	
TGG	NLD	2,5		7,6		SKIN	
VLE	PRT	2,5	1	7,6	3	SKIN	
NDS/NDSCh	POL	2,5		7,5		SKIN	
TLV	ROU	2,5	1	7,6	3	SKIN	
ПДК	RUS			0,5			п + а
NGV/KGV	SWE	2,5	1	7,5	3	SKIN	
NPEL	SVK	2,5	1	7,6	3	SKIN	
MV	SVN	2,5	1	7,6	3	SKIN	
WEL	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 concentration - PNEC

Normal value in fresh water	70	µg/L
Normal value in marine water	28	µg/L
Normal value for fresh water sediment	357	µg/kg
Normal value for marine water sediment	35,7	µg/kg
Normal value for marine water, intermittent release	7	µg/L
Normal value of STP microorganisms	100	mg/l
Normal value for the terrestrial compartment	1,29	mg/kg
Normal value for the atmosphere	NPI	

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		LOW		1,5 mg/kg				
Inhalation		LOW	280,0 µg/m³	180,0 µg/m³	LOW	LOW	510,0 µg/m³	1,0 mg/m³
Skin		LOW	MED	1,5 mg/kg	MED	LOW	MED	3,0 mg/kg

SECTION 8. Exposure controls/personal protection ... / >>

toluene

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	192	50	384	100	SKIN
TLV	CZE	192	50,112	384	100,224	SKIN
AGW	DEU	190	50	760	200	SKIN
MAK	DEU	190	50	380	100	SKIN
VLA	ESP	192	50	384	100	SKIN
VLEP	FRA	76,8	20	384	100	SKIN
TLV	GRC	192	50	384	100	
AK	HUN	192	50	384	100	SKIN
VLEP	ITA	192	50			SKIN
TLV	NOR	94	25			SKIN
TGG	NLD	150		384		
VLE	PRT	192	50	384	100	SKIN
NDS/NDSCh	POL	100		200		SKIN
TLV	ROU	192	50	384	100	SKIN
ПДК	RUS	50		150		п
NGV/KGV	SWE	192	50	384	100	SKIN
NPEL	SVK	192	50	384	100	SKIN
MV	SVN	192	50	384	100	SKIN
WEL	GBR	191	50	384	100	SKIN
OEL	EU	192	50	384	100	SKIN
TLV-ACGIH			20			

Predicted no-effect concentration - PNEC

Normal value in fresh water	74	µg/L
Normal value in marine water	37,8	µg/L
Normal value for fresh water sediment	1,78	mg/kg
Normal value for marine water sediment	178	µg/kg
Normal value for water, intermittent release	3,78	µg/L
Normal value for marine water, intermittent release	7,4	µg/L
Normal value for fresh water, intermittent release	0,00378	mg/l
Normal value of STP microorganisms	840	µg/L
Normal value for the terrestrial compartment	313	µg/kg
Normal value for the atmosphere	NPI	

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		NPI		8,13 mg/kg				
Inhalation		226,0 mg/m³	56,5 mg/m³	56,5 mg/m³	384,0 mg/m³	384,0 mg/m³	192,0 mg/m³	192,0 mg/m³
Skin		NPI	NPI	226,0 mg/kg	LOW	NPI	NPI	384,0 mg/kg

SECTION 8. Exposure controls/personal protection ... / >>

acetone

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	600		1400		
TLV	CZE	800	331,2	1500	621	
AGW	DEU	1200	500	2400	1000	
MAK	DEU	1200	500	2400	1000	
VLA	ESP	1210	500			
VLEP	FRA	1210	500	2420	1000	
TLV	GRC	1780		3560		
AK	HUN	1210	500			
VLEP	ITA	1210	500			
TLV	NOR	295	125			
TGG	NLD	1210		2420		
VLE	PRT	1210	500			
NDS/NDSCh	POL	600		1800		
TLV	ROU	1210	500			
ПДК	RUS	200		800		п
NGV/KGV	SWE	600	250	1200 (C)	500 (C)	
NPEL	SVK	1210	500			
MV	SVN	1210	500	2420	1000	
WEL	GBR	1210	500	3620	1500	
OEL	EU	1210	500			
TLV-ACGIH			250		500	

Predicted no-effect concentration - PNEC

Normal value in fresh water	10,6	mg/l
Normal value in marine water	21	mg/l
Normal value for fresh water sediment	30,4	mg/kg
Normal value for marine water sediment	3,04	mg/kg
Normal value for water, intermittent release	21	mg/l
Normal value for marine water, intermittent release	1,06	mg/l
Normal value of STP microorganisms	100	mg/l
Normal value for the terrestrial compartment	29,5	mg/kg
Normal value for the atmosphere	NPI	

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		LOW		62,0 mg/kg				
Inhalation		LOW	LOW	200,0 mg/m³	2,0 420	LOW	LOW	1,0 210
Skin		LOW	LOW	62,0 mg/kg	LOW	LOW	LOW	186,0 mg/kg

SECTION 8. Exposure controls/personal protection ... / >>

(2-methoxymethylethoxy)propanol

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	310	50	310	50	INHAL
VLA	ESP	308	50			SKIN
VLEP	FRA	308	50			SKIN
AK	HUN	308				
VLEP	ITA	308	50			SKIN
TLV	NOR	300	50			SKIN
TGG	NLD	300	48,7			
NDS/NDSCh	POL	240		480		SKIN
TLV	ROU	308	50			
NGV/KGV	SWE	300	50	450	75	
WEL	GBR	308	50			SKIN
OEL	EU	308	50			SKIN

Predicted no-effect concentration - PNEC

Normal value in fresh water	19	mg/l
Normal value in marine water	190	mg/l
Normal value for fresh water sediment	70,2	mg/kg
Normal value for marine water sediment	7,02	mg/kg
Normal value for marine water, intermittent release	1,9	mg/l
Normal value of STP microorganisms	4,168	g/l
Normal value for the terrestrial compartment	2,74	mg/kg
Normal value for the atmosphere	NPI	

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		NPI		36,0 mg/kg				
Inhalation		NPI	NPI	37,2 mg/m³	NPI	NPI	NPI	308,0 mg/m³
Skin		NPI	NPI	121,0 mg/kg	NPI	NPI	NPI	283,0 mg/kg

BENZENE

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	3,25				SKIN
TLV	CZE	3	0,924	10	3,08	SKIN
VLA	ESP	3,25	1			SKIN
VLEP	FRA	3,25	1			SKIN
TLV	GRC	3,25	1			SKIN
AK	HUN	3,25	1			SKIN
VLEP	ITA	3,25	1			SKIN
TLV	NOR	3	1			SKIN
TGG	NLD	0,7				SKIN
VLE	PRT	3,25	1			SKIN
NDS/NDSCh	POL	1,6				SKIN
TLV	ROU	3,25	1			SKIN
ПДК	RUS	5		15		п, К
NGV/KGV	SWE	0,66	0,2	9	3	SKIN
NPEL	SVK	3,25	1			SKIN
MV	SVN	3,25	1	13	4	SKIN
WEL	GBR	3,25	1			SKIN
OEL	EU	3,25	1			SKIN

SECTION 8. Exposure controls/personal protection ... / >>

METHANOL

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
TLV	BGR	260	200			SKIN	
TLV	CZE	250	187,75	1000	751	SKIN	
AGW	DEU	130	100	260	200	SKIN	
MAK	DEU	130	100	260	200	SKIN	
VLA	ESP	266	200			SKIN	
VLEP	FRA	260	200	1300	1000	SKIN	11
TLV	GRC	260	200	325	250		
AK	HUN	260	200			SKIN	
VLEP	ITA	260	200			SKIN	
TLV	NOR	130	100			SKIN	
TGG	NLD	133				SKIN	
VLE	PRT	260	200			SKIN	
NDS/NDSCh	POL	100		300		SKIN	
TLV	ROU	260	200			SKIN	
ПДК	RUS	5		15			п
NGV/KGV	SWE	250	200	350 (C)	250 (C)	SKIN	
NPEL	SVK	260	200			SKIN	
MV	SVN	260	200	1040	800	SKIN	
WEL	GBR	266	200	333	250	SKIN	
OEL	EU	260	200				
TLV-ACGIH		262	200	328	250	SKIN	

Legend:
(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = 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

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.
HAND PROTECTION
Protect hands with category III work gloves.
The following should be considered when choosing work glove material (see standard EN 374): compatibility, degradation, permeability time.
The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.
SKIN PROTECTION
Wear category I professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.
EYE PROTECTION
Wear airtight protective goggles (see standard EN ISO 16321).
RESPIRATORY PROTECTION
Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. Use a mask with a type AX filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387).
If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.
ENVIRONMENTAL EXPOSURE CONTROLS
The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties		Value		Information
Appearance		liquid		
Colour		Typical		
Odour		typical		
Melting point / freezing point		not available		Reason for missing data:Date not available
Initial boiling point	>	35	°C	

SECTION 9. Physical and chemical properties ... / >>

Flammability		not available	Reason for missing data:Date not available
Lower explosive limit		not available	Reason for missing data:Date not available
Upper explosive limit		not available	Reason for missing data:Date not available
Flash point	>	60 °C	
Auto-ignition temperature		not available	Reason for missing data:Date not available
Decomposition temperature		not available	Reason for missing data:Date not available
pH		10	Concentration: 100 % Temperature: 20 °C
Kinematic viscosity		0,5 - 2 mm²/s	
Solubility		soluble in water	
Partition coefficient: n-octanol/water		not available	Reason for missing data:Date not available
Vapour pressure		not available	
Density and/or relative density		0,989	
Relative vapour density		not available	Reason for missing data:Date not available
Particle characteristics		not applicable	

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

VOC (Directive 2010/75/EU)	6,78 %	-	67,04	g/litre

SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

toluene
Avoid exposure to: light.
acetone
Decomposes under the effect of heat.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

The vapours may also form explosive mixtures with the air.

2-(2-butoxyethoxy)ethanol
May react with: oxidising substances.May form peroxides with: oxygen.Develops hydrogen on contact with: aluminium.May form explosive mixtures with: air.
ethanol
Risk of explosion on contact with: alkaline metals,alkaline oxides,calcium hypochlorite,sulphur monofluoride,acetic anhydride,acids,concentrated hydrogen peroxide,perchlorates,perchloric acid,perchloronitrile,mercury nitrate,nitric acid,silver,silver nitrate,ammonia,silver oxide,ammonia,strong oxidising agents,nitrogen dioxide.May react dangerously with: bromoacetylene,chlorine acetylene,bromine trifluoride,chromium trioxide,chromyl chloride,fluorine,potassium tert-butoxide,lithium hydride,phosphorus trioxide,black platinum,zirconium (IV) chloride,zirconium (IV) iodide.Forms explosive mixtures with: air.
ethanolamine
May react dangerously with: acrylonitrile,chloroepoxypropane,chlorosulphuric acid,hydrogen chloride,iron-sulphur compounds,acetic acid,acetic anhydride,mesityl oxide,nitric acid,sulphuric acid,strong acids,vinyl acetate,cellulose nitrate.
toluene
Risk of explosion on contact with: fuming sulphuric acid,nitric acid,silver perchlorate,nitrogen dioxide,non-metal halogenates,acetic acid,organic nitrocompounds.May form explosive mixtures with: air.May react dangerously with: strong oxidising agents,strong acids,sulphur.
acetone
Risk of explosion on contact with: bromine trifluoride,fluorine dioxide,hydrogen peroxide,nitrosyl chloride,2-methyl-1,3 butadiene,nitromethane,nitrosyl perchlorate.May react dangerously with: potassium tert-butoxide,alkaline hydroxides,bromine,bromoform,isoprene,sodium,sulphur dioxide,chromium trioxide,chromyl chloride,nitric acid,chloroform,peroxymonosulphuric acid,phosphoryl oxychloride,chromosulphuric acid,fluorine,strong oxidising agents,strong reducing

SECTION 10. Stability and reactivity ... / >>

agents.Develops flammable gas on contact with: nitrosyl perchlorate.

10.4. Conditions to avoid

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

2-(2-butoxyethoxy)ethanol
Avoid exposure to: air.
ethanol
Avoid exposure to: sources of heat,naked flames.
ethanolamine
Avoid exposure to: air,sources of heat.
acetone
Avoid exposure to: sources of heat,naked flames.

10.5. Incompatible materials

2-(2-butoxyethoxy)ethanol
Incompatible with: oxidising substances,strong acids,alkaline metals.
ethanolamine
Incompatible with: iron,strong acids,strong oxidants.
acetone
Incompatible with: acids,oxidising substances.

10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

2-(2-butoxyethoxy)ethanol
May develop: hydrogen.
ethanolamine
May develop: nitric oxide,carbon oxides.
acetone
May develop: ketenes,irritant substances.

SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.
It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

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

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

2-(2-butoxyethoxy)ethanol
WORKERS: inhalation; contact with the skin.

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

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

Delayed and immediate effects as well as chronic effects from short and long-term exposure

2-(2-butoxyethoxy)ethanol
May be absorbed by inhalation, ingestion and skin contact; is irritating for the skin and especially for the eyes. May cause damage to the spleen. At room temperature the danger of inhalation is unlikely, due to the low vapour pressure of the substance.

toluene
Toxic effect on the central and peripheral nervous system with encephalopathy and polyneuritis; irritating for the skin, conjunctiva, cornea and respiratory apparatus.

SECTION 11. Toxicological information ... / >>

METHANOL
The minimum lethal dose for humans by ingestion is considered to be in the range from 300 to 1000 mg/kg. Ingestion of 4-10 ml of the substance may cause permanent blindness in adult humans (IPCS).

Interactive effects

toluene
Certain drugs and other industrial products can interfere with the metabolism of the toluene.

ACUTE TOXICITY

ATE (Inhalation) of the mixture:	Not classified (no significant component)
ATE (Oral) of the mixture:	Not classified (no significant component)
ATE (Dermal) of the mixture:	Not classified (no significant component)

2-(2-butoxyethoxy)ethanol

LD50 (Dermal):	2764 mg/kg (rabbit)
LD50 (Oral):	2410 mg/kg (mouse)

ethanol

LD50 (Oral):	8300 mg/kg (rat)
LC50 (Inhalation vapours):	82,1 mg/L/6/h (rat)

ethanolamine

LD50 (Dermal):	2504 mg/kg (rabbit)
ATE (Dermal):	1100 mg/kg estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)
LD50 (Oral):	1089 mg/kg (rat)
LC50 (Inhalation vapours):	1,3 mg/L/6/h (rat)

toluene

LD50 (Dermal):	5000 mg/kg (rabbit)
LD50 (Oral):	5000 mg/kg (rat)
LC50 (Inhalation vapours):	25,7 mg/L/4/h (rat)

acetone

LD50 (Dermal):	7426 mg/kg (guinea pig)
LD50 (Oral):	5800 mg/kg (rat)
LC50 (Inhalation vapours):	50,1 mg/L/8/h (rat)

(2-methoxymethylethoxy)propanol

LD50 (Dermal):	19020 mg/kg (rat)
LD50 (Oral):	5000 mg/kg (rat)

BENZENE

LD50 (Dermal):	> 8260 mg/kg Rabbit
LD50 (Oral):	3340 mg/kg Rat
LC50 (Inhalation vapours):	43,7 mg/l/4h Rat

METHANOL

LC50 (Inhalation vapours):	> 87,6 mg/l/4h Rat

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

SECTION 11. Toxicological information ... / >>

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

toluene
Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC) - (IARC, 1999).
The US Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment of the carcinogenic potential".

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

11.2. Information on other hazards

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

SECTION 12. Ecological information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

12.1. Toxicity

2-(2-butoxyethoxy)ethanol	
LC50 - for Fish	1,3 g/L/96h
EC50 - for Crustacea	100 mg/l/48h
EC50 - for Algae / Aquatic Plants	1,101 g/L/72h
Chronic NOEC for Algae / Aquatic Plants	100 mg/l
ethanol	
LC50 - for Fish	> 14,2 g/L/96h
EC50 - for Crustacea	5,012 g/L/48h
EC50 - for Algae / Aquatic Plants	275 mg/l/72h
EC10 for Algae / Aquatic Plants	11,5 mg/l/72h
Chronic NOEC for Fish	> 250 mg/L/120h
Chronic NOEC for Crustacea	> 9,6 mg/l
ethanolamine	
LC50 - for Fish	349 mg/l/96h
EC50 - for Crustacea	> 27,04 mg/l/48h
EC50 - for Algae / Aquatic Plants	> 2,1 mg/l/72h
EC10 for Algae / Aquatic Plants	700 µg/L/72h
Chronic NOEC for Fish	1,24 mg/L/984h
Chronic NOEC for Crustacea	850 µg/L
Chronic NOEC for Algae / Aquatic Plants	1 mg/l
toluene	
LC50 - for Fish	5,5 mg/l/96h
EC50 - for Crustacea	3,78 mg/l/48h
EC10 for Crustacea	3,8 mg/l/28d
Chronic NOEC for Fish	1,39 mg/L/960h
Chronic NOEC for Crustacea	740 µg/L

SECTION 12. Ecological information ... / >>

acetone	
LC50 - for Fish	> 5,54 g/L/96h
EC50 - for Crustacea	8,8 g/L/48h
EC50 - for Algae / Aquatic Plants	530 mg/l Pseudokirchnerella subcapitata (8d)
Chronic NOEC for Crustacea	> 1,106 g/l
(2-methoxymethylethoxy)propanol	
LC50 - for Fish	> 1 g/L/96h
EC50 - for Crustacea	> 1 g/L/48h
EC50 - for Algae / Aquatic Plants	969 mg/l/72h
Chronic NOEC for Crustacea	500 µg/L
Chronic NOEC for Algae / Aquatic Plants	969 mg/l
BENZENE	
LC50 - for Fish	630 mg/l/96h Fish

12.2. Persistence and degradability

2-(2-butoxyethoxy)ethanol	
Solubility in water	955 g/l
Rapidly degradable	
ethanol	
Solubility in water	789 g/l
Rapidly degradable	
ethanolamine	
Solubility in water	1000 g/l
Rapidly degradable	
toluene	
Solubility in water	587 g/l
Rapidly degradable	
acetone	
Rapidly degradable	
(2-methoxymethylethoxy)propanol	
Rapidly degradable	
BENZENE	
Solubility in water	1000 - 10000 mg/l
Rapidly degradable	
METHANOL	
Solubility in water	1000 - 10000 mg/l
Rapidly degradable	

12.3. Bioaccumulative potential

2-(2-butoxyethoxy)ethanol	
Partition coefficient: n-octanol/water	1
ethanol	
Partition coefficient: n-octanol/water	-0,35
ethanolamine	
Partition coefficient: n-octanol/water	-2,3
toluene	
Partition coefficient: n-octanol/water	2,73
BCF	90
acetone	
Partition coefficient: n-octanol/water	-0,24
BCF	3

SECTION 12. Ecological information ... / >>

(2-methoxymethylethoxy)propanol	
Partition coefficient: n-octanol/water	0,004
BENZENE	
Partition coefficient: n-octanol/water	2,13
BCF	< 10
METHANOL	
Partition coefficient: n-octanol/water	-0,77
BCF	0,2

12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

12.6. Endocrine disrupting properties

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

12.7. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Neat product residues should be considered special non-hazardous waste.
Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.
CONTAMINATED PACKAGING
Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1. UN number or ID number

not applicable

14.2. UN proper shipping name

not applicable

14.3. Transport hazard class(es)

not applicable

14.4. Packing group

not applicable

14.5. Environmental hazards

not applicable

SECTION 14. Transport information ... / >>

14.6. Special precautions for user

not applicable

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EU: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product		
Point	40	
Contained substance		
Point	75	GERANIOL REACH Reg.: 01-2119552430-49-XXXX
Point	75	2-(2-butoxyethoxy)ethanol REACH Reg.: 01-2119475104-44-XXXX
Point	75	ethanol REACH Reg.: 01-2119457610-43-XXXX
Point	75	propan-2-ol REACH Reg.: 01-2119457558-25-XXXX
Point	75	2-(2-hexyloxyethoxy)ethanol REACH Reg.: 01-2119945815-28-XXXX
Point	75	acetone REACH Reg.: 01-2119471330-49-XXXX
Point	75	sodium 4-[3,6-bis(diethylamino)-2,7-dimethylxanthenium-9-yl]benzene-1,3-disulfonate REACH Reg.: 01-2120762107-57-XXXX
Point	75	disodium 6-hydroxy-5-[(4-sulfonatophenyl)diazenyl]naphthalene-2-sulfonate
Point	75	ethanolamine REACH Reg.: 01-2119486455-28-XXXX
Point	75	2-phenoxyethanol REACH Reg.: 01-2119488943-21
Point	75	LIMONENE REACH Reg.: 01-2119529223-47-XXXX
Point	72-75	BENZENE REACH Reg.: 01-2119496063-37-XXXX
Point	48-75	toluene REACH Reg.: 01-2119471310-51-XXXX

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors
not applicable

Substances in Candidate List (Art. 59 REACH)
On the basis of available data, the product does not contain any SVHC in percentage ≥ than 0,1%.

Substances subject to authorisation (Annex XIV REACH)
None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:
None

Substances subject to the Rotterdam Convention:
None

Substances subject to the Stockholm Convention:
None

Healthcare controls
Information not available

Regulation (EC) No. 648/2004
Ingredients according to Regulation (EC) No. 648/2004

SECTION 15. Regulatory information ... / >>

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

Ingredients compliant with Regulation (EC) No. 648/2004
Less than 5% Non-ionic surfactants. Perfumes: Hexyl cinnamal; butylphenylmethylpropiona; linalool; methylenedioxyphenyl methylpropanal; hydroxycitronellal; geraniol; limonene.

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flam. Liq. 2	Flammable liquid, category 2
Carc. 1A	Carcinogenicity, category 1A
Muta. 1B	Germ cell mutagenicity, category 1B
Repr. 2	Reproductive toxicity, category 2
Acute Tox. 3	Acute toxicity, category 3
STOT SE 1	Specific target organ toxicity - single exposure, category 1
Acute Tox. 4	Acute toxicity, category 4
STOT RE 1	Specific target organ toxicity - repeated exposure, category 1
Asp. Tox. 1	Aspiration hazard, category 1
STOT RE 2	Specific target organ toxicity - repeated exposure, category 2
Skin Corr. 1B	Skin corrosion, category 1B
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
STOT SE 2	Specific target organ toxicity - single exposure, category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H225	Highly flammable liquid and vapour.
H350	May cause cancer.
H340	May cause genetic defects.
H361d	Suspected of damaging the unborn child.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H331	Toxic if inhaled.
H370	Causes damage to organs.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H372	Causes damage to organs through prolonged or repeated exposure.
H304	May be fatal if swallowed and enters airways.
H373	May cause damage to organs through prolonged or repeated exposure.
H314	Causes severe skin burns and eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H371	May cause damage to organs.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.
EUH210	Safety data sheet available on request.

LEGEND:
- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule

SECTION 16. Other information ... / >>

- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier 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: Regulation concerning the international transport 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 Compounds
- vPvB: Very persistent and very bioaccumulative
- vPvM: Very persistent and very mobile
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
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 (UE) 2018/1480 (XIII Atp. CLP)
17. Regulation (EU) 2019/1148
18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
23. Delegated Regulation (UE) 2023/707
24. Delegated Regulation (UE) 2023/1434 (XIX Atp. CLP)
24. Delegated Regulation (UE) 2023/1435 (XX Atp. CLP)

- The Merck Index. - 10th Edition
- Handling Chemical Safety
- INRS - Fiche Toxicologique (toxicological sheet)
- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

Note for users:
The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.
This document must not be regarded as a guarantee on any specific product property.
The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

SECTION 16. Other information ... / >>

Provide appointed staff with adequate training on how to use chemical products.

CALCULATION METHODS FOR CLASSIFICATION
Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.
Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.
Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review:
The following sections were modified:
02 / 03 / 04 / 08 / 09 / 10 / 11 / 12 / 15 / 16.