Safety Data Sheet
Conforms to Regulation (EC) No. 1907/2006 (REACH), Article 31, Annex II, as amended by Commission Regulation (EU) 2020/878
FUGA-SOAP ECO
Date of first edition: 2/16/2021
Safety Data Sheet dated 9/20/2021
version 6

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

1.1. Product identifier

Mixture identification:

Trade name: FUGA-SOAP ECO

Trade code: B0161 .010

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

Recommended use: detergent

Uses advised against: Data not available.

1.3. Details of the supplier of the safety data sheet

Company: KERAKOLL S.p.A.
Via dell'Artigianato, 9
41049 Sassuolo (MODENA) - ITALY
Tel.+39 0536 816511 Fax. +39 0536816581
safety@kerakoll.com

1.4. Emergency telephone number

European emergency phone number 112
Kerakoll Italy - +39-0536-816511
Ireland
Poison information centre: 01 809 2166 (Daily 8am-10pm)
In case of emergency call 999 or 112
Malta
In case of emergency call: +356 2395 2000 (24h)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) n. 1272/2008 (CLP)

Eye Irrit. 2 Causes serious eye irritation.

Adverse physicochemical, human health and environmental effects:
No other hazards

2.2. Label elements

Regulation (EC) No 1272/2008 (CLP):

Pictograms and Signal Words

Warning

Hazard statements

H319 Causes serious eye irritation.

Precautionary statements

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves and eye protection.

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

P337+P313 If eye irritation persists: Get medical advice/attention.

Special Provisions:

EUH208 Contains reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

Regulation (EC) nr 648/2004 (Detergents).

Product contents:

aliphatic hydrocarbons	15-30%
anionic surfactants	< 5%

Allergens:

Benzyl Alcohol

Citral

Preservatives:

2-bromo-2-nitropropane-1,3-diol

Methylchloroisothiazolinone and methylisothiazolinone

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1%.

Other Hazards: Contains:biocidal product. Contains: C(M)IT/MIT (3:1).The product is identified as an article treated pursuant to art. 58 of Regulation (EU) no. 528/2012 and subsequent amendments. It is recommended to avoid possible exposure to the skin. Protective gloves and work clothes are recommended. Minimize the uncontrolled release of product into the environment. When washing work equipment, water must not be dispersed in the soil or on surface water.

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Mixture identification: FUGA-SOAP ECO

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Numb.	Classification	Registration Number
10-19,9 %	1-methoxy-2-propanol; monopropylene glycol methyl ether	CAS:107-98-2 EC:203-539-1 Index:603-064-00-3	Flam. Liq. 3, H226; STOT SE 3, H336	01-2119457435-35
10-19,9 %	benzyl alcohol	CAS:100-51-6 EC:202-859-9 Index:603-057-00-5	Acute Tox. 4, H302; Acute Tox. 4, H332; Eye Irrit. 2, H319	01-2119492630-38
1-2,4 %	Sodium sulfate	CAS:126-92-1 EC:204-812-8	Skin Irrit. 2, H315; Eye Dam. 1, H318	01-2119971586-23
< 0,0015 %	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	CAS:55965-84-9 Index:613-167-00-5	Acute Tox. 2, H330 Acute Tox. 2, H310 Acute Tox. 3, H301 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410, M-Chronic:100, M-Acute:100, EUH071 Specific Concentration Limits: C ≥ 0.6%: Skin Corr. 1C H314 0.06% ≤ C < 0.6%: Skin Irrit. 2 H315 C ≥ 0.6%: Eye Dam. 1 H318 0.06% ≤ C < 0.6%: Eye Irrit. 2 H319 C ≥ 0.0015%: Skin Sens. 1A H317	

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediatley and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an opthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and label hazardous.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

Eye irritation

Eye damages

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO_2).

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand

Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhaltion of vapours and mists.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contamined clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

7.3. Specific end use(s)

Recommendation(s)

None in particular

Industrial sector specific solutions:

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Community Occupational Exposure Limits (OEL)

Component	OEL Type	Country	Ceiling	Long Term mg/m3	Long Term ppm	Short Term mg/m3	Short Term ppm	Notes
1-methoxy-2-propanol; monopropylene glycol methyl ether	EU	NNN		375	100	563	150	Skin
	NATIONAL	AUSTRIA		187.000	50.000	187.000	50.000	
	NATIONAL	BELGIUM		184.000	50.000	369.000	100.000	
	NATIONAL	CANADA			100.000		150.000	Ontario
	NATIONAL	CANADA		369.000	100.000	553.000	150.000	Québec
	NATIONAL	DENMARK		185.000	50.000	370.000	100.000	
	NATIONAL	FINLAND		370.000	100.000	560.000	150.000	
	NATIONAL	FRANCE		188.000	50.000	375.000	100.000	
	NATIONAL	GERMANY		370.000	100.000	740.000	200.000	AGS
	NATIONAL	GERMANY		370.000	100.000	740.000	200.000	DFG
	NATIONAL	HUNGARY		375.000		568.000		
	NATIONAL	IRELAND		375.000	100.000	568.000	150.000	
	NATIONAL	ISRAEL		369.000	100.000			
	NATIONAL	ITALY		375.000	100.000	568.000	150.000	
	NATIONAL	LATVIA		375.000	100.000	568.000	150.000	
	NATIONAL	NEW ZEALAND		369.000	100.000	553.000	150.000	
	NATIONAL	ROMANIA		375.000	100.000	568.000	150.000	
	NATIONAL	KOREA, REPUBLIC OF		360.000	100.000	540.000	150.000	
	NATIONAL	SPAIN		375.000	100.000	568.000	150.000	
	NATIONAL	SWEDEN		190.000	50.000	568.000	150.000	
	NATIONAL	SWITZERLAND		360.000	100.000	720.000	200.000	
	NATIONAL	NETHERLANDS		375.000		563.000		
	NATIONAL	TURKEY		375.000	100.000	568.000	150.000	
	NATIONAL	UNITED STATES OF AMERICA		360.000	100.000	540.000	150.000	
	NATIONAL	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND		375.000	100.000	560.000	150.000	
	NATIONAL	ARGENTINA			100.000		150.000	
	NATIONAL	BULGARIA		375.000	100.000	568.000	150.000	
	NATIONAL	CZECHIA		270.000		550.000		

	NATIONAL	CROATIA		375.000	100.000	568.000	150.000	
	NATIONAL	ESTONIA		375.000	100.000	568.000	150.000	
	NATIONAL	GREECE		360.000	100.000	1080.000	300.000	
	NATIONAL	INDONESIA			100.000		150.000	
	NATIONAL	ICELAND		185.000	50.000	568.000	150.000	
	NATIONAL	LITHUANIA		190.000	50.000	300.000	75.000	
	NATIONAL	MALAYSIA		369.000	100.000			
	NATIONAL	MEXICO			100.000		150.000	
	NATIONAL	NORWAY		180.000	50.000			
	ACGIH	NNN			50		100	A4 - Eye and URT irr
	EU	NNN		375	100	563	150	Skin
benzyl alcohol	NATIONAL	FINLAND		45.000	10.000			
	NATIONAL	GERMANY		22.000	5.000	44.000	10.000	AGS; Long term and short term: inhalable fraction
	NATIONAL	GERMANY		22.000	5.000	44.000	10.000	DFG; Long term and short term: inhalable fraction
	NATIONAL	LATVIA		5.000				
	NATIONAL	SWITZERLAND		5.000	22.000			
	NATIONAL	BULGARIA		5.000				
	NATIONAL	CZECHIA		40.000		80.000		
	NATIONAL	LITHUANIA		5.000				
	NATIONAL	POLAND		240.000				
	NATIONAL	RUSSIAN FEDERATION					5.000	
	NATIONAL	SLOVENIA		22.000	5.000	44.000	10.000	
	NATIONAL	UNITED STATES OF AMERICA			10.000			
sodium hydroxide; caustic soda	NATIONAL	AUSTRALIA	C			2		
	NATIONAL	AUSTRIA		2.000		4.000		Long term and short term: inhalable aerosol
	NATIONAL	BELGIUM		2.000				
	NATIONAL	CANADA	C			2.000		Ontario
	NATIONAL	CANADA	C			2.000		Quebec
	NATIONAL	DENMARK		2.000		2.000		
	NATIONAL	FINLAND	C			2.000		
	NATIONAL	FRANCE		2.000				
	NATIONAL	HUNGARY		2.000		2.000		
	NATIONAL	IRELAND				2.000		
	NATIONAL	JAPAN	C	2.000				JSOH; Reference value to the maximal exposure concentration of the substance during a working day
	NATIONAL	LATVIA		0.500				
	NATIONAL	NEW ZEALAND	C			2.000		
	NATIONAL	CHINA	C			2.000		
	NATIONAL	POLAND		0.500		1.000		
	NATIONAL	ROMANIA		1.000		3.000		
	NATIONAL	SINGAPORE				2.000		
	NATIONAL	KOREA, REPUBLIC OF	C			2.000		

	NATIONAL	SPAIN		2.000			
	NATIONAL	SWEDEN		1.000		1.000	Long term and short term: inhalable fraction
	NATIONAL	SWITZERLAND		2.000		2.000	long term and short term: inhalable fraction
	NATIONAL	UNITED STATES OF AMERICA	C			2.000	NIOSH
	NATIONAL	UNITED STATES OF AMERICA	C	2.000			OSHA
	NATIONAL	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND				2.000	
	NATIONAL	BULGARIA		2.000			
	NATIONAL	CZECHIA		1.000		2.000	
	NATIONAL	ESTONIA		1.000		2.000	
	NATIONAL	GREECE		2.000		2.000	
	NATIONAL	SLOVAKIA		2.000			
	NATIONAL	SLOVENIA		2.000			
	NATIONAL	TAIWAN, PROVINCE OF CHINA		2.000			
	ACGIH	NNN	C			2	URT, eye, and skin irr
2-methoxypropanol	NATIONAL	AUSTRIA		75.000	20.000	300.000	80.000
	NATIONAL	DENMARK		75.000	20.000	150.000	40.000
	NATIONAL	GERMANY		19.000	5.000	152.000	40.000 AGS
	NATIONAL	GERMANY		19.000	5.000	38.000	10.000 DFG
	NATIONAL	SPAIN		75.000	20.000		
	NATIONAL	SWITZERLAND		19.000	5.000	152.000	40.000
	NATIONAL	ICELAND		75.000	20.000		
	NATIONAL	NORWAY		75.000	20.000		
	NATIONAL	SLOVAKIA		19.000	5.000		
	NATIONAL	SLOVENIA		19.000	5.000	152.000	40.000
citral	NATIONAL	BELGIUM		32.000	5.000		Long term and short term: inhalable fraction and vapour; Additional indication "D" means that the absorption of the agent through the skin, mucous membranes or eyes is an important part of the total exposure.
	NATIONAL	CANADA			5.000		Ontario; inhalable fraction and vapour
	NATIONAL	POLAND		27.000		54.000	
	NATIONAL	SPAIN			5.000		
	NATIONAL	ITALY		31.000	5.000		
	NATIONAL	IRELAND			5.000		
	NATIONAL	MEXICO			5.000		
	NATIONAL	UNITED STATES OF AMERICA		32.000	5.000		Long term and short term: inhalable fraction and vapour
	ACGIH	NNN			5		(IFV), Skin, DSEN, A4 - Body weight eff, URT irr, eye dam

sodium chloride	NATIONAL	LATVIA	5.000				
	NATIONAL	LITHUANIA	5.000				
	NATIONAL	RUSSIAN FEDERATION			5.000		
(R)-p-mentha-1,8-diene	NATIONAL	FINLAND	140.000	25.000	280.000	50.000	
	NATIONAL	GERMANY	28.000	5.000	110.000	20.000	AGS
	NATIONAL	GERMANY	28.000	5.000	112.000	20.000	DFG
	NATIONAL	SWITZERLAND	40.000	7.000	80.000	14.000	
	NATIONAL	NORWAY	140.000	25.000			
	NATIONAL	SLOVENIA	28.000	5.000	112.000	20.000	
	NATIONAL	SPAIN	168.000	30.000			
linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool	NATIONAL	RUSSIAN FEDERATION			5.000		
2,6-di-tert-butyl-p-cresol	NATIONAL	AUSTRALIA	10.000				
	NATIONAL	AUSTRIA	10.000				
	NATIONAL	BELGIUM	2.000				Inhalable fraction and vapour
	NATIONAL	CANADA	2.000				Ontario; Inhalable fraction and vapour
	NATIONAL	CANADA	10.000				Quebec
	NATIONAL	DENMARK	10.000		20.000		
	NATIONAL	FINLAND	10.000		20.000		
	NATIONAL	FRANCE	10.000				
	NATIONAL	GERMANY	10.000		40.000		ASG; Long term and short term: inhalable aerosol and vapour
	NATIONAL	GERMANY	10.000		40.000		DFG; Long term and short term: inhalable fraction and vapour
	NATIONAL	IRELAND	10.000				
	NATIONAL	NEW ZEALAND	10.000				
	NATIONAL	SINGAPORE	10.000				
	NATIONAL	KOREA, REPUBLIC OF	2.000				
	NATIONAL	SWITZERLAND	10.000				Inhalable aerosol
	NATIONAL	SWITZERLAND			40.000		
	NATIONAL	UNITED STATES OF AMERICA	10.000				NIOSH
	NATIONAL	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	10.000				
	NATIONAL	ITALY	2.000				
	NATIONAL	ARGENTINA	2.000				Vapour and aerosol
	NATIONAL	BULGARIA	10.000		50.000		

	NATIONAL	CROATIA	10.000		
	NATIONAL	INDONESIA	10.000		
	NATIONAL	ICELAND	10.000		
	NATIONAL	MALAYSIA	10.000		
	NATIONAL	MEXICO	2.000		
	NATIONAL	PORTUGAL	2.000		
	NATIONAL	SLOVENIA	10.000	40.000	
	NATIONAL	SPAIN	10.000		
	NATIONAL	SOUTH AFRICA	10.000		
	ACGIH	NNN	2		(IFV), A4 - URT irr
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	NATIONAL	AUSTRIA	0.050		
	NATIONAL	GERMANY	0.200	0.400	DFG; Long term and short term: inhalable fraction
	NATIONAL	SWITZERLAND	0.200	0.400	Inhalable fraction
	NATIONAL	KOREA, REPUBLIC OF	0.100		
	NATIONAL	NETHERLANDS	0.200		

Biological limit values

CAS-No.	Component	Value	UoM	Medium	Biological Indicator	Sampling Period
107-98-2	1-methoxy-2-propanol; monopropylene glycol methyl ether	20	mg/L	Urine	1-Methoxypropanol-2	End of turn

Predicted No Effect Concentration (PNEC) values

Component	CAS-No.	PNEC Limit	Exposure Route	Exposure Frequency
1-methoxy-2-propanol; monopropylene glycol methyl ether	107-98-2	10.000 mg/l	Freshwater	
		100.000 mg/l	Intermittent releases (freshwater)	
		1.000 mg/l	Marine water	
		100.000 mg/l	Microorganisms in sewage treatments	
		52.300 mg/kg	Freshwater sediments	
		5.200 mg/kg	Marine water sediments	
		4.590 mg/kg	Soil	
benzyl alcohol	100-51-6	1.000 mg/l	Freshwater	
		0.100 mg/l	Marine water	
		5.270 mg/kg	Freshwater sediments	
		0.527 mg/kg	Marine water sediments	
		2.300 mg/l	Intermittent releases (freshwater)	
		39.000 mg/l	Microorganisms in sewage treatments	
		0.456 mg/kg	Soil	
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-	55965-84-9	3.390 µg/l	Freshwater	

methyl-2H-isothiazol-3-one (3:1)		
	3.390 µg/l	Intermittent releases (freshwater)
	3.390 µg/l	Marine water
	3.390 µg/l	Intermittent releases (marine water)
	230.000 µg/l	Microorganisms in sewage treatments
	27.000 µg/l	Freshwater sediments
	27.000 µg/l	Marine water sediments
	10.000 µg/l	Soil

Derived No Effect Level (DNEL) values

Component	CAS-No.	Worker Industry	Worker Professional	Consumer	Exposure Route	Exposure Frequency
1-methoxy-2-propanol; monopropylene glycol methyl ether	107-98-2		369.000 mg/m³	43.900 mg/m³	Human Inhalation	Long Term, systemic effects
			553.500 mg/m³		Human Inhalation	Short Term, systemic effects
			553.500 mg/m³		Human Inhalation	Short Term, local effects
			183.000 mg/kg	78.000 mg/kg	Human Dermal	Long Term, systemic effects
				33.000 mg/kg	Human Oral	Long Term, systemic effects
benzyl alcohol	100-51-6		22.000 mg/m³	8.100 mg/m³	Human Inhalation	Long Term, systemic effects
			450.000 mg/m³	40.500 mg/m³	Human Inhalation	Short Term, systemic effects
			9.500 mg/kg	5.700 mg/kg	Human Dermal	Long Term, systemic effects
			47.000 mg/kg	28.500 mg/kg	Human Dermal	Short Term, systemic effects
				5.000 mg/kg	Human Oral	Long Term, systemic effects
				25.000 mg/kg	Human Oral	Short Term, systemic effects
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	55965-84-9		20.000 µg/m³	20.000 µg/m³	Human Inhalation	Long Term, local effects
			40.000 µg/m³	20.000 µg/m³	Human Inhalation	Short Term, local effects
				90.000 µg/kg	Human Oral	Long Term, systemic effects
				110.000 µg/kg	Human Oral	Short Term, systemic effects

8.2. Exposure controls

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

N.A.

Thermal Hazards:

N.A.

Environmental exposure controls:

N.A.

Hygienic and Technical measures

N.A.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical State Liquid

Color: Colourless

Odour: Like: Alcohol

Odour threshold: N.A.

pH: >=6.00<=8.00

Kinematic viscosity: <= 20,5 mm2/sec (40 °C)

Melting point / freezing point: N.A.

Initial boiling point and boiling range: 100 °C (212 °F)

Flash point: > 60°C / 93°C

Upper/lower flammability or explosive limits: N.A.

Vapour density: N.A.

Vapour pressure: 23.00 hPa

Relative density: N.A.

Solubility in water: Soluble

Solubility in oil: N.A.

Partition coefficient (n-octanol/water): N.A.

Auto-ignition temperature: 435.00 °C

Decomposition temperature: N.A.

Flammability: N.A.

Volatile Organic compounds - VOCs = 34.99 % ; 349.90 g/l

Particle characteristics:

Particle size: N.A.

9.2. Other information

Miscibility: N.A.

Conductivity: N.A.

Evaporation rate: N.A. No other relevant information

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Data not available.

10.3. Possibility of hazardous reactions

None.

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

None in particular.

10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information

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

Toxicological Information of the Preparation

a) acute toxicity	Not classified
	Based on available data, the classification criteria are not met
b) skin corrosion/irritation	Not classified
	Based on available data, the classification criteria are not met
c) serious eye damage/irritation	The product is classified: Eye Irrit. 2(H319)

d) respiratory or skin sensitisation	Not classified
	Based on available data, the classification criteria are not met
e) germ cell mutagenicity	Not classified
	Based on available data, the classification criteria are not met
f) carcinogenicity	Not classified
	Based on available data, the classification criteria are not met
g) reproductive toxicity	Not classified
	Based on available data, the classification criteria are not met
h) STOT-single exposure	Not classified
	Based on available data, the classification criteria are not met
i) STOT-repeated exposure	Not classified
	Based on available data, the classification criteria are not met
j) aspiration hazard	Not classified
	Based on available data, the classification criteria are not met

Toxicological information on main components of the mixture:

1-methoxy-2-propanol; monopropylene glycol methyl ether	a) acute toxicity	LD50 Oral Rat = 4016.00 mg/kg	
		LC50 Inhalation Vapour Rat Negative 6h	No mortalities observed
		LD50 Skin Rat > 2000.00 mg/kg	
	b) skin corrosion/irritation	Skin Irritant Rabbit Negative 4h	
	c) serious eye damage/irritation	Eye Irritant Rabbit No	
	d) respiratory or skin sensitisation	Skin Sensitization Guineapig Negative	
	f) carcinogenicity	Genotoxicity	Mouse intraperitoneal rout
		Carcinogenicity Negative	
	g) reproductive toxicity	No Observed Adverse Effect Level Inhalation Rat = 300.00	ppm
benzyl alcohol	a) acute toxicity	LD50 Oral Rat = 1620.00 mg/kg	
		LC50 Inhalation of aerosol Rat > 4178.00000 mg/m3 4h	
		LD50 Skin Rabbit > 2000.00000 mg/kg 24h	
		LC50 Inhalation Mist Rat = 4.18 mg/l 4h	
	b) skin corrosion/irritation	Skin Irritant Rabbit Negative	
	c) serious eye damage/irritation	Eye Irritant Rabbit Yes 24h	
	d) respiratory or skin sensitisation	Skin Sensitization Negative	Mouse
	f) carcinogenicity	Genotoxicity Negative	Mouse
		Carcinogenicity Oral Rat Negative	
	g) reproductive toxicity	No Observed Adverse Effect Level Oral = 200.00000 mg/kg	Mouse
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	a) acute toxicity	LD50 Oral Rat = 69.00 mg/kg	
		LD50 Skin Rabbit = 141.00 mg/kg	
		LC50 Inhalation Rat = 0.33 mg/l 4h	
	b) skin corrosion/irritation	Skin Irritant Rabbit Positive	
	c) serious eye damage/irritation	Eye Corrosive Rabbit Positive	

d) respiratory or skin sensitisation	Skin Sensitization Positive
f) carcinogenicity	Genotoxicity Negative
	Carcinogenicity Skin Negative
g) reproductive toxicity	No Observed Adverse Effect Level Oral Rat = 22.70000 mg/kg

11.2 Information on other hazards

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration >= 0.1%

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

List of Eco-Toxicological properties of the product

Not classified for environmental hazards.

No data available for the product

List of Eco-Toxicological properties of the components

Component	Ident. Numb.	Ecotox Data
1-methoxy-2-propanol; monopropylene glycol methyl ether	CAS: 107-98-2 - EINECS: 203-539-1 - INDEX: 603-064-00-3	a) Aquatic acute toxicity : LC50 Fish Leuciscus idus = 6812.00 mg/L OECD guideline 203
		a) Aquatic acute toxicity : LC50 Daphnia = 23300.00 mg/L 48h OECD guideline 202
		a) Aquatic acute toxicity : EC50 Algae = 1000.00 mg/L OECD guideline 201 - 7days
		a) Aquatic acute toxicity : NOEC Sludge = 1000.00 mg/L OECD guideline 201
benzyl alcohol	CAS: 100-51-6 - EINECS: 202-859-9 - INDEX: 603-057-00-5	a) Aquatic acute toxicity : LC50 Fish Oryzias latipes = 460.00000 mg/L 96h OECD SIDS (2001)
		b) Aquatic chronic toxicity : NOEC Fish = 48.89700 mg/L ECOSAR QSAR
		a) Aquatic acute toxicity : LC50 Daphnia Daphnia magna = 230.00000 mg/L 48h OECD SIDS (2001)
		b) Aquatic chronic toxicity : NOEC Daphnia Daphnia magna = 51.00000 mg/L OECD Guideline 211
		a) Aquatic acute toxicity : EC50 Algae Pseudokirchnerella subcapitata = 770.00000 mg/L 72h OECD SIDS on Benzoates (2001)
		c) Bacteria toxicity : EC50 Nitrosomonas = 390.00000 mg/L
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	CAS: 55965-84-9 - INDEX: 613-167-00-5	a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss = 0.19000 mg/L 96h EPA OPP 72-1 (Fish Acute Toxicity Test)
		b) Aquatic chronic toxicity : NOEC Fish Danio rerio = 0.02000 mg/L ,,OECD Guideline 210 (Fish, Early-Life Stage Toxicity Test) - 35days
		a) Aquatic acute toxicity : LC50 Daphnia Daphnia magna = 0.16000 mg/L 48h EPA OPP 72-2 (Aquatic Invertebrate Acute Toxicity Test)
		b) Aquatic chronic toxicity : NOEC Daphnia Daphnia magna = 0.10000 mg/L EPA OPP 72-4 (Fish Early Life-Stage and Aquatic Invertebrate Life-Cycle Studies) - 21days
		a) Aquatic acute toxicity : EC50 Algae Skeletonema costatum = 0.00 mg/L 96h ,,OECD Guideline 201 (Alga, Growth Inhibition Test)
		a) Aquatic acute toxicity : EC50 Sludge activated sludge = 4.50000 mg/L 3h ,,OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
		d) Terrestrial toxicity : LC50 Worm Eisenia fetida = 613.00000 mg/kg ,,OECD

Guideline 207 (Earthworm, Acute Toxicity Tests) - 14days

e) Plant toxicity : NOEC Trifolium pratense, Oryza sativa, Brassica napus = 1000.00000 mg/L OECD Guideline 208 (Terrestrial Plants Test: Seedling Emergence and Seedling Growth Test) - 21days

12.2. Persistence and degradability

Component	Persitence/Degradability:	Test	Value	Notes
1-methoxy-2-propanol; monopropylene glycol methyl ether	Readily biodegradable		69.000	28days
benzyl alcohol	Readily biodegradable	Dissolved organic carbon	96.000	%; OECD Guideline 301A
Sodium sulfate	Readily biodegradable			
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	Non-readily biodegradable			

The surfactant(s) contained in this preparation cogmplies(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.

12.3. Bioaccumulative potential

Component	Bioaccumulation	Test	Value	Notes
benzyl alcohol	Bioaccumulative	BCF - Bioconcentrantion factor	1.000	L/kg ww
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	Bioaccumulative	BCF - Bioconcentrantion factor	54.000	≤ 54

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

No PBT/vPvB Ingredients are present

12.6 Endocrine disrupting properties

No endocrine disruptor substances present in concentration >= 0.1%

12.7 Other adverse effects

N.A.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover if possible. In so doing, comply with the local and national regulations currently in force.

A waste code according to European waste catalogue (EWC) cannot be specified, due to dependence on the usage. Contact an authorized waste disposal service.

Properties of waste which render it hazardous (Annex III, Directive 2008/98/EC):

N.A.

SECTION 14: Transport information

14.1. UN number or ID number

N/A

14.2. UN proper shipping name

ADR-Shipping Name: N/A

IATA-Technical name: N/A

IMDG-Technical name: N/A

14.3. Transport hazard class(es)

ADR-Class: N/A

IATA-Class: N/A

IMDG-Class: N/A

14.4. Packing group

ADR-Packing Group: N/A

IATA-Packing group: N/A

IMDG-Packing group: N/A

14.5. Environmental hazards

Marine pollutant: No

Environmental Pollutant: No

IMDG-EMS: N/A

14.6. Special precautions for user

Road and Rail (ADR-RID) :

ADR exempt: No

ADR-Label: N/A

ADR - Hazard identification number: N/A

ADR-Special Provisions: N/A

ADR-Transport category (Tunnel restriction code): N/A

ADR Limited Quantities: N/A

ADR Excepted Quantities: N/A

Air (IATA) :

IATA-Passenger Aircraft: N/A

IATA-Cargo Aircraft: N/A

IATA-Label: N/A

IATA-Subsidiary hazards: N/A

IATA-Erg: N/A

IATA-Special Provisioning: N/A

Sea (IMDG) :

IMDG-Stowage Code: N/A

IMDG-Stowage Note: N/A

IMDG-Subsidiary hazards: N/A

IMDG-Special Provisioning: N/A

14.7. Maritime transport in bulk according to IMO instruments

N.A.

SECTION 15: Regulatory information

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

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Regulation (EU) n. 2016/918 (ATP 8 CLP)

Regulation (EU) n. 2016/1179 (ATP 9 CLP)

Regulation (EU) n. 2017/776 (ATP 10 CLP)

Regulation (EU) n. 2018/669 (ATP 11 CLP)

Regulation (EU) n. 2018/1480 (ATP 13 CLP)

Regulation (EU) n. 2019/521 (ATP 12 CLP)

Regulation (EU) n. 2020/217 (ATP 14 CLP)

Regulation (EU) n. 2020/1182 (ATP 15 CLP)

Regulation (EU) n. 2021/643 (ATP 16 CLP)

Regulation (EU) n. 2020/878

Regulation (EC) nr 648/2004 (Detergents).

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product: 3

Restrictions related to the substances contained: 30, 40, 75

Provisions related to directive EU 2012/18 (Seveso III):

N.A.

Regulation (EU) 649/2012 (PIC regulation):

No Substance Listed

German Water Hazard Class.

NWG: Not hazardous for water

SVHC Substances:

No data available

REGULATION (EU) No 528/2012

The product is identified as an article treated pursuant to art. 58 of Regulation (EU) no. 528/2012 and subsequent amendments.

Substances included in Regulation (EU) n. 528/2012 (concerning the making available on the market and use of biocidal products):

Nomenclature IUPAC: Mixture of 5-chloro-2-methyl-2H- isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (Mixture of CMIT/MIT)

Nomenclature BPR: C(M)IT/MIT (3:1)

CAS number: 55965-84-9

Product-type 6: Preservatives for products during storage

Assessment status: Approved

Commission Implementing Regulation (EU) 2016/131

15.2. Chemical safety assessment

A Chemical Safety Assessment has been carried out for the mixture.

SECTION 16: Other information

Code	Description
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.

Code	Hazard class and hazard category	Description
2.6/3	Flam. Liq. 3	Flammable liquid, Category 3
3.1/4/Inhal	Acute Tox. 4	Acute toxicity (inhalation), Category 4
3.1/4/Oral	Acute Tox. 4	Acute toxicity (oral), Category 4
3.2/2	Skin Irrit. 2	Skin irritation, Category 2
3.3/1	Eye Dam. 1	Serious eye damage, Category 1
3.3/2	Eye Irrit. 2	Eye irritation, Category 2
3.8/3	STOT SE 3	Specific target organ toxicity — single exposure, Category 3

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
3.3/2	Calculation method

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

ACGIH: American Conference of Governmental Industrial Hygienists

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

BCF: Biological Concentration Factor

BEI: Biological Exposure Index

BOD: Biochemical Oxygen Demand

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CAV: Poison Center

CE: European Community

CLP: Classification, Labeling, Packaging.
CMR: Carcinogenic, Mutagenic and Reprotoxic
COD: Chemical Oxygen Demand
COV: Volatile Organic Compound
CSA: Chemical Safety Assessment
CSR: Chemical Safety Report
DMEL: Derived Minimal Effect Level
DNEL: Derived No Effect Level.
DPD: Dangerous Preparations Directive
DSD: Dangerous Substances Directive
EC50: Half Maximal Effective Concentration
ECHA: European Chemicals Agency
EINECS: European Inventory of Existing Commercial Chemical Substances.
ES: Exposure Scenario
GefStoffVO: Ordinance on Hazardous Substances, Germany.
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.
IARC: International Agency for Research on Cancer
IATA: International Air Transport Association.
IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
IC50: half maximal inhibitory concentration
ICAO: International Civil Aviation Organization.
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG: International Maritime Code for Dangerous Goods.
INCI: International Nomenclature of Cosmetic Ingredients.
IRCCS: Scientific Institute for Research, Hospitalization and Health Care
KAFH: Keep Away From Heat
KSt: Explosion coefficient.
LC50: Lethal concentration, for 50 percent of test population.
LD50: Lethal dose, for 50 percent of test population.
LDLo: Leathal Dose Low
N.A.: Not Applicable
N/A: Not Applicable
N/D: Not defined/ Not available
NA: Not available
NIOSH: National Institute for Occupational Safety and Health
NOAEL: No Observed Adverse Effect Level
OSHA: Occupational Safety and Health Administration.
PBT: Persistent, Bioaccumulative and Toxic
PGK: Packaging Instruction
PNEC: Predicted No Effect Concentration.
PSG: Passengers
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL: Short Term Exposure limit.
STOT: Specific Target Organ Toxicity.
TLV: Threshold Limiting Value.
TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
vPvB: Very Persistent, Very Bioaccumulative.
WGK: German Water Hazard Class.

Paragraphs modified from the previous revision:

- 15. REGULATORY INFORMATION

Exposure Scenario
Benzyl alcohol

Exposure Scenario, 30/06/2021

Substance identity	
	Benzyl alcohol
CAS No.	100-51-6
INDEX No.	603-057-00-5
EINECS No.	202-859-9
Registration number	01-2119492630-38

Table of contents

1. ES 1 Widespread use by professional workers; Various products (PC9b, PC9a, PC1, PC15); Building and construction work (SU19)

1.1 TITLE SECTION

Exposure Scenario name	Professional application of coatings and inks - Use in rigid foams, coatings, adhesives and sealants
Date - Version	30/06/2021 - 1.0
Life Cycle Stage	Widespread use by professional workers
Main user group	Professional uses
Sector(s) of use	Professional uses (SU22) - Building and construction work (SU19)
Product Categories	Fillers, putties, plasters, modelling clay (PC9b) - Coatings and paints, thinners, paint removers (PC9a) - Adhesives, sealants (PC1) - Non-metal surface treatment products (PC15)

Environment Contributing Scenario

CS1	ERC8a - ERC8d

Worker Contributing Scenario

CS2	PROC8a - PROC10

1.2 Conditions of use affecting exposure

1.2. CS1: Environment Contributing Scenario (ERC8a, ERC8d)

Environmental release categories	Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) - Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) (ERC8a, ERC8d)

Product (article) characteristics

Physical form of product:
Liquid, vapour pressure < 10 Pa (Standard Temperature and Pressure)

Vapour pressure:
= 7 Pa

Amount used, frequency and duration of use (or from service life)

Amounts used:
Annual site tonnage = 1000 t(onnes)/year

Release type: Continuous release

Emission days: 365 days per year

Conditions and measures related to sewage treatment plant

STP type:
Municipal Sewage Treatment Plant
Water - minimum efficiency of: = 87.36 %

STP effluent (m^3/day): 2000

Conditions and measures related to treatment of waste (including article waste)

Waste treatment
Product residual disposal complies with applicable regulations.

1.2. CS2: Worker Contributing Scenario (PROC8a, PROC10)

Process Categories	Transfer of substance or mixture (charging and discharging) at non-dedicated facilities - Roller application or brushing (PROC8a, PROC10)

Product (article) characteristics

Physical form of product:
Liquid

Vapour pressure:

< 7 Pa

Amount used, frequency and duration of use/exposure

Duration:

Covers use up to = 8 h/day

Technical and organisational conditions and measures

Technical and organisational measures

Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.
Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Conditions and measures related to personal protection, hygiene and health evaluation

Personal protection

Wear suitable gloves tested to EN374.	Dermal - minimum efficiency of: = 90 %

Other conditions affecting worker exposure

Covers indoor and outdoor use
Professional use
Temperature: Assumes use at not more than 20 °C above ambient temperature.
Body parts exposed:

Assumes that potential dermal contact is limited to hands.

1.3 Exposure estimation and reference to its source

1.3. CS1: Environment Contributing Scenario (ERC8a, ERC8d)

protection target	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
freshwater	N/A	EUSES v2.1	< 0.01
freshwater sediment	N/A	EUSES v2.1	< 0.01
marine water	N/A	EUSES v2.1	< 0.01
marine sediment	N/A	EUSES v2.1	< 0.01
soil	N/A	EUSES v2.1	= 0.019
Man via environment - Inhalation	N/A	EUSES v2.1	< 0.01
Man via environment - Oral	N/A	EUSES v2.1	< 0.01

1.3. CS2: Worker Contributing Scenario (PROC8a, PROC10)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
combined routes, systemic, long-term	N/A	ECETOC TRA worker v3	0.977

1.4 Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Guidance to check compliance with the exposure scenario:

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.