

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

Date of first edition: 2/16/2021 Safety Data Sheet dated 10/05/2024

version 7

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

1.1. Product identifier

Mixture identification:

Trade name: FUGA-SOAP
Trade code: S100B0161.011

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

Recommended use: detergent

Uses advised against: All uses other than recommended ones 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):

Hazard pictograms and Signal Word



Warning

Hazard statements

H319 Causes serious eye irritation.

Precautionary statements

P102 Keep out of reach of children.

P264 Wash hands thoroughly after handling.
P280 Wear protective gloves and eye protection.

P305+P351+P33 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

8 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.

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

Product contents:

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: 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

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

Qty	Name	Ident. Numb.	Classification	Registration Number
≥10-<20 %	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-<20 %	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-<3 %	Sodium sulfate	CAS:126-92-1 EC:204-812-8	Skin Irrit. 2, H315; Eye Dam. 1, H318	01-2119971586-23
<0.01 %	bronopol (INN); 2-bromo-2- nitropropane-1,3-diol	CAS:52-51-7 EC:200-143-0 Index:603-085- 00-8	STOT SE 3, H335; Skin Irrit. 2, H315; Eye Dam. 1, H318; Aquatic Acute 1, H400; Acute Tox. 4, H312; Aquatic Chronic 1, H410; Acute Tox. 3, H301; Acute Tox. 3, H331, M-Chronic:10, M-Acute:100	
< 0.0015 %	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)		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: $C \ge 0.6\%$: Skin Corr. 1C H314 0.06% ≤ C < 0.6%: Skin Irrit. 2 H315 $C \ge 0.6\%$: Eye Dam. 1 H318 0.06% ≤ C < 0.6%: Eye Irrit. 2 H319 $C \ge 0.0015\%$: Skin Sens. 1A H317	,

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

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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 (CO2).

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

For non emergency personnel:

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

For emergency responders:

Wear personal protection equipment.

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, inhalation 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.

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See also section 8 for recommended protective equipment.

Advice on general occupational hygiene:

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)

Community Occupational L	•	• •		
	OEL Type	Country	Occupational Exposure Limit	
1-methoxy-2-propanol; monopropylene glycol methyl ether	ACGIH		Long Term: 50 ppm (8h); Short Term: 100 ppm A4 - Eye and URT irr	
CAS: 107-98-2				
	EU		Long Term: 375 mg/m3 - 100 ppm (8h); Short Term: 563 mg/m3 - 150 ppm Skin	1
	NATIONAL	AUSTRIA	Long Term: 187 mg/m3 - 50 ppm; Short Term: Ceiling - 187 mg/m3 - 50 pp Mow, MAK, H Source: BGBl. II Nr. 156/2021	m
	NATIONAL	BULGARIA	Long Term: 375 mg/m3 - 100 ppm; Short Term: 568 mg/m3 - 150 ppm Кожа Source: НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г.	
	NATIONAL	CZECHIA	Long Term: 270 mg/m3; Short Term: Ceiling - 550 mg/m3	
			Source: Nařízení vlády č. 361-2007 Sb	
	NATIONAL	DENMARK	Long Term: 185 mg/m3 - 50 ppm EH	
			Source: BEK nr 2203 af 29/11/2021	
	NATIONAL	ESTONIA	Long Term: 375 mg/m3 - 100 ppm; Short Term: 568 mg/m3 - 150 ppm A, S	
			Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105	
	NATIONAL	FINLAND	Long Term: 370 mg/m3 - 100 ppm; Short Term: 560 mg/m3 - 150 ppm iho Source: HTP-ARVOT 2020	
	NATIONAL	FRANCE	Long Term: 188 mg/m3 - 50 ppm; Short Term: 375 mg/m3 - 100 ppm Risque de pénétration percutanée Source: INRS outil65, article R. 4412-149 du Code du travail	
	NATIONAL	GREECE	Long Term: 360 mg/m3 - 100 ppm; Short Term: 1080 mg/m3 - 300 ppm Δ Source: ΦEK 94/A $$ 13.5.1999	
	NATIONAL	HUNGARY	Long Term: 375 mg/m3; Short Term: 568 mg/m3 b, EU1, R+T Source: 5/2020. (II. 6.) ITM rendelet	
	NATIONAL	LITHUANIA	Long Term: 190 mg/m3 - 50 ppm; Short Term: 300 mg/m3 - 75 ppm Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389	
	NATIONAL	NETHERLAND S	Long Term: 375 mg/m3; Short Term: 563 mg/m3 H	
			Source: Arbeidsomstandighedenregeling - Lijst A	
	NATIONAL	NORWAY	Long Term: 180 mg/m3 - 50 ppm H E	
			Source: FOR-2021-06-28-2248	
	NATIONAL	POLAND	Long Term: 180 mg/m3; Short Term: 360 mg/m3 skóra	
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Source: Dz.U. 2018 poz. 1286

NATIONAL SLOVAKIA Long Term: 375 mg/m3 - 100 ppm; Short Term: 568 mg/m3 - 150 ppm

Source: 355 NARIADENIE VLÁDY z 10. mája 2006

NATIONAL SWEDEN Long Term: 190 mg/m3 - 50 ppm; Short Term: 568 mg/m3 - 150 ppm

Η

Source: AFS 2021:3

SUVA SWITZERLAN Long Term: 360 mg/m3 - 100 ppm; Short Term: 720 mg/m3 - 200 ppm

SSC, B, VRS Yeux / OAW Auge Source: suva.ch/valeurs-limites

WEL-EH40 UNITED Long Term: 375 mg/m3 - 100 ppm; Short Term: 560 mg/m3 - 150 ppm

KINGDOM OF Sk

GREAT Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020)

BRITAIN AND NORTHERN IRELAND

NATIONAL BELGIUM Long Term: 184 mg/m3 - 50 ppm; Short Term: 369 mg/m3 - 100 ppm

D

Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1

NATIONAL CROATIA Long Term: 375 mg/m3 - 100 ppm; Short Term: 568 mg/m3 - 150 ppm

Source: 2000/39/EZ

NATIONAL CYPRUS Long Term: 375 mg/m3 - 100 ppm; Short Term: 568 mg/m3 - 150 ppm

δέρμα

Source: Οι περί Ασφάλειας και Υγείας στην Εργασία (Χημικοί Παράγοντες) Κανονισμοί

του 2001 έως 2021

NATIONAL GERMANY Long Term: 370 mg/m3 - 100 ppm

DFG, EU, Y, 2(I) Source: TRGS 900

NATIONAL IRELAND Long Term: 375 mg/m3 - 100 ppm; Short Term: 568 mg/m3 - 150 ppm

IOELV

Source: 2021 Code of Practice

NATIONAL ITALY Long Term: 375 mg/m3 - 100 ppm; Short Term: 568 mg/m3 - 150 ppm

Cute

Source: D.lgs. 81/2008, Allegato XXXVIII

NATIONAL LATVIA Long Term: 375 mg/m3 - 100 ppm; Short Term: 568 mg/m3 - 150 ppm

Ada

Source: KN325P1

NATIONAL LUXEMBOUR Long Term: 375 mg/m3 - 100 ppm; Short Term: 568 mg/m3 - 150 ppm

Peau

G

benzyl alcohol

CAS: 100-51-6

Source: Mémorial A n.226 du 22 mars 2021

NATIONAL MALTA Long Term: 375 mg/m3 - 100 ppm; Short Term: 568 mg/m3 - 150 ppm

skin

Source: S.L.424.24

NATIONAL PORTUGAL Long Term: 375 mg/m3 - 100 ppm; Short Term: 568 mg/m3 - 150 ppm

Source: Decreto-Lei n.º 1/2021

NATIONAL ROMANIA Long Term: 375 mg/m3 - 100 ppm; Short Term: 568 mg/m3 - 150 ppm

P, Dir. 2000/39

Source: Republicarea 1 - nr. 743 din 29 iulie 2021

NATIONAL SLOVENIA Long Term: 375 mg/m3 - 100 ppm; Short Term: 568 mg/m3 - 150 ppm

K, Y, BAT, EU1

Source: UL št. 72, 11. 5. 2021

NATIONAL SPAIN Long Term: 375 mg/m3 - 100 ppm; Short Term: 568 mg/m3 - 150 ppm

vía dérmica, VLI Source: LEP 2022

NATIONAL BULGARIA Long Term: 5 mg/m3

Source: НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г.

NATIONAL CZECHIA Long Term: 40 mg/m3; Short Term: Ceiling - 80 mg/m3

Source: Nařízení vlády č. 361-2007 Sb

NATIONAL FINLAND Long Term: 45 mg/m3 - 10 ppm

Source: HTP-ARVOT 2020

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Long Term: 5 mg/m3 NATIONAL LATVIA

Source: KN325P1

NATIONAL LITHUANIA Long Term: 5 mg/m3

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Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389

NATIONAL POLAND Long Term: 240 mg/m3

Source: Dz.U. 2018 poz. 1286

SUVA SWITZERLAN Long Term: 22 mg/m3 - 5 ppm

R/H, SSC, VR / AW, NIOSH, La substance peut être présente sous forme de vapeur et D

d'aérosol en même temps / Der Stoff kann gleichzeitig als Dampf und Aerosol vorliegen

Source: suva.ch/valeurs-limites

NATIONAL GERMANY Long Term: 22 mg/m3

> DFG, H, Y, 11, 2 (I) Source: TRGS 900

NATIONAL SLOVENIA Long Term: 22 mg/m3 - 5 ppm; Short Term: 44 mg/m3 - 10 ppm

Source: UL št. 72, 11. 5. 2021

reaction mass of 5-chloro-2- NATIONAL GERMANY methyl-2H-isothiazol-3-one

and 2-methyl-2H-isothiazol-3-one (3:1)

CAS: 55965-84-9

Long Term: 0.2 mg/m3; Short Term: 0.4 mg/m3

DFG; Long term and short term: inhalable fraction

Source: TRGS900

NATIONAL AUSTRIA Long Term: 0.05 mg/m3

MAK, Sh

Source: GKV, BGBI. II Nr. 156/2021

SUVA SWITZERLAN Long Term: 0.2 mg/m3; Short Term: 0.4 mg/m3

TWA mg/m3: (i), S, SSC, VRS Peau Yeux / OAW Haut Auge D

Source: suva.ch/valeurs-limites

Biological limit values

1-methoxy-2-propanol; monopropylene glycol

methyl ether CAS: 107-98-2 Biological Indicator: 1-Methoxypropanol-2; Sampling Period: End of turn

Value: 20 mg/L; Medium: Urine

Predicted No Effect Concentration (PNEC) values

1-methoxy-2-propanol;

monopropylene glycol methyl ether CAS: 107-98-2

Exposure Route: Fresh Water; PNEC Limit: 10 mg/l

Exposure Route: Intermittent releases (fresh water); PNEC Limit: 100 mg/l

Exposure Route: Marine water; PNEC Limit: 1 mg/l

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 100 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 52.3 mg/kg Exposure Route: Marine water sediments; PNEC Limit: 5.2 mg/kg

Exposure Route: Soil; PNEC Limit: 4.59 mg/kg

benzyl alcohol CAS: 100-51-6 Exposure Route: Fresh Water; PNEC Limit: 1 mg/l

Exposure Route: Marine water; PNEC Limit: 0.1 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 5.27 mg/kg Exposure Route: Marine water sediments; PNEC Limit: 0.527 mg/kg Exposure Route: Intermittent releases (fresh water); PNEC Limit: 2.3 mg/l Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 39 mg/l

Exposure Route: Soil; PNEC Limit: 0.456 mg/kg

bronopol (INN); 2-bromo- Exposure Route: Fresh Water; PNEC Limit: 10 μg/l

2-nitropropane-1,3-diol

CAS: 52-51-7

Exposure Route: Intermittent releases (fresh water); PNEC Limit: 2.5 µg/l

Exposure Route: Marine water; PNEC Limit: 800 ng/L

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 430 µg/l

16/05/2024 FUGA-SOAP Date Production Name Page n. 6 of Exposure Route: Freshwater sediments; PNEC Limit: 41 μ g/l Exposure Route: Marine water sediments; PNEC Limit: 3.28 μ g/kg

Exposure Route: Soil; PNEC Limit: 500 µg/kg

reaction mass of 5chloro-2-methyl-2Hisothiazol-3-one and 2methyl-2H-isothiazol-3one (3:1)

CAS: 55965-84-9

Exposure Route: Fresh Water; PNEC Limit: $3.39 \ \mu g/I$

Exposure Route: Intermittent releases (fresh water); PNEC Limit: 3.39 µg/l

Exposure Route: Marine water; PNEC Limit: 3.39 µg/l

Exposure Route: Intermittent releases (marine water); PNEC Limit: 3.39 μg/l Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 230 μg/l

Exposure Route: Freshwater sediments; PNEC Limit: 27 μ g/l Exposure Route: Marine water sediments; PNEC Limit: 27 μ g/l

Exposure Route: Soil; PNEC Limit: 10 µg/l

Derived No Effect Level (DNEL) values

1-methoxy-2-propanol; monopropylene glycol

methyl ether CAS: 107-98-2 Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects

Worker Professional: 369 mg/m³; Consumer: 43.9 mg/m³

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects

Worker Professional: 553.5 mg/m³

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects

Worker Professional: 553.5 mg/m³

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects

Worker Professional: 183 mg/kg; Consumer: 78 mg/kg

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects

Consumer: 33 mg/kg

benzyl alcohol CAS: 100-51-6

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects

Worker Professional: 22 mg/m³; Consumer: 8.1 mg/m³

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects

Worker Professional: 450 mg/m³; Consumer: 40.5 mg/m³

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects

Worker Professional: 9.5 mg/kg; Consumer: 5.7 mg/kg

Exposure Route: Human Dermal; Exposure Frequency: Short Term, systemic effects

Worker Professional: 47 mg/kg; Consumer: 28.5 mg/kg

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects

Consumer: 5 mg/kg

Exposure Route: Human Oral; Exposure Frequency: Short Term, systemic effects

Consumer: 25 mg/kg

2-nitropropane-1,3-diol CAS: 52-51-7

bronopol (INN); 2-bromo- Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects

Worker Professional: 4.1 mg/m³; Consumer: 1.2 mg/m³

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects

Worker Professional: 12.3 mg/m³

3,

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects Worker Professional: 4.2 mg/m³; Consumer: 1.3 mg/m³

Worker Professional. 4.2 mg/m², Consumer. 1.5 mg/m²

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects

Worker Professional: 4.2 mg/m³; Consumer: 1.3 mg/m³

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects

Worker Professional: 2.3 mg/kg; Consumer: 1.4 mg/kg

Exposure Route: Human Dermal; Exposure Frequency: Short Term, systemic effects

Worker Professional: 7 mg/kg

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects

Consumer: 350 µg/kg

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Exposure Route: Human Oral; Exposure Frequency: Short Term, systemic effects

Consumer: 1.1 mg/kg

Exposure Route: Human Dermal; Exposure Frequency: Long Term, local effects

Worker Professional: 0.013 mg/cm²; Consumer: 0.008 mg/cm²

Exposure Route: Human Dermal; Exposure Frequency: Short Term, local effects

Worker Professional: 0.013 mg/cm²; Consumer: 0.008 mg/cm²

reaction mass of 5chloro-2-methyl-2Hisothiazol-3-one and 2methyl-2H-isothiazol-3one (3:1)

CAS: 55965-84-9

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects

Worker Professional: 20 μg/m³; Consumer: 20 μg/m³

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects

Worker Professional: 40 μg/m³; Consumer: 20 μg/m³

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects

Consumer: 90 μg/kg

Exposure Route: Human Oral; Exposure Frequency: Short Term, systemic effects

Consumer: 110 µg/kg

8.2. Exposure controls

Eye protection:

Eye glasses with side protection.(EN166)

Protection for skin:

Chemical protection clothing. Safety shoes.

Protection for hands:

Nitrile rubber, Viton, 4H.

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
Colour: Colourless
Odour: Like: Alcohol
Odour threshold: N.A.
pH: >=6.00<=8.00
Kinematic viscosity: N.A.

Melting point/freezing point: N.A.

Boiling point or initial boiling point and boiling range: 100 °C (212 °F)

Flash point: > 100 °C (212 °F) Lower and upper explosion limit: N.A.

Relative vapour density: N.A.

Vapour pressure: 23.00 hPa

Density and/or relative density: N.A.

Solubility in water: Soluble Solubility in oil: N.A.

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

Auto-ignition temperature: 435.00 °C Decomposition temperature: N.A.

Flammability: N.A.

Volatile Organic compounds - VOCs = 33.49 %; 334.90 g/l

Particle characteristics:

Particle size: N.A. **9.2. Other information**

No other relevant information

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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

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 mg/kg

LD50 Skin Rat > 2000 mg/kg

LC50 Inhalation Vapour Rat Negative 6h

No mortalities observed

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 = ppm

300

benzyl alcohol a) acute toxicity LD50 Oral Rat = 1620 mg/kg

LC50 Inhalation of aerosol Rat > 4178 mg/m3 4h

LD50 Skin Rabbit > 2000 mg/kg 24h

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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

Genotoxicity Negative Mouse f) carcinogenicity

Carcinogenicity Oral Rat Negative

No Observed Adverse Effect Level Oral = 200 mg/kg Mouse g) reproductive toxicity

bronopol (INN); 2-bromo- a) acute toxicity

2-nitropropane-1,3-diol

LD50 Oral Rat = 305 mg/kg

LC50 Inhalation of aerosol Rat >= 0.59 mg/l 4h

LD50 Skin Rat > 2000 mg/kg 24h

b) skin corrosion/irritation Skin Irritant Rabbit Positive 4h

c) serious eye damage/irritation Eye Irritant Rabbit Yes

d) respiratory or skin

sensitisation

Skin Sensitization Guineapig Negative

f) carcinogenicity Genotoxicity Negative Mouse oral route

Carcinogenicity Oral Rat Negative

No Observed Adverse Effect Level Oral Rat 200 g) reproductive toxicity

reaction mass of 5chloro-2-methyl-2Hisothiazol-3-one and 2methyl-2H-isothiazol-3one (3:1)

a) acute toxicity

LD50 Oral Rat = 69 mg/kg

LD50 Skin Rabbit = 141 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

No Observed Adverse Effect Level Oral Rat = 22.7 g) reproductive toxicity

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; CAS: 107-98-2 - a) Aquatic acute toxicity: LC50 Fish Leuciscus idus = 6812 mg/L OECD

monopropylene glycol methyl EINECS: 203guideline 203

539-1 - INDEX: ether

16/05/2024 FUGA-SOAP Page n. 10 of Date Production Name

a) Aquatic acute toxicity:	LC50 Daphnia = 23300 m	g/L 48h OECD guideline
202		

- a) Aquatic acute toxicity: EC50 Algae = 1000 mg/L OECD guideline 201 -
- a) Aquatic acute toxicity: NOEC Sludge = 1000 mg/L OECD guideline 201

benzyl alcohol

EINECS: 202-859-9 - INDEX: 603-057-00-5

CAS: 100-51-6 - a) Aquatic acute toxicity: LC50 Fish Oryzias latipes = 460 mg/L 96h OECD SIDS (2001)

- b) Aquatic chronic toxicity: NOEC Fish = 48.897 mg/L ECOSAR QSAR
- a) Aquatic acute toxicity: LC50 Daphnia Daphnia magna = 230 mg/L 48h **OECD SIDS (2001)**
- b) Aquatic chronic toxicity: NOEC Daphnia Daphnia magna = 51 mg/L OECD Guideline 211
- a) Aquatic acute toxicity: EC50 Algae Pseudokirchnerella subcapitata = 770 mg/L 72h OECD SIDS on Benzoates (2001)
- c) Bacteria toxicity: EC50 Nitrosomonas = 390 mg/L

bronopol (INN); 2-bromo-2nitropropane-1,3-diol

CAS: 52-51-7 -EINECS: 200-143-0 - INDEX: 603-085-00-8

a) Aquatic acute toxicity: LC50 Fish Lepomis macrochirus = 37.5 mg/L 96h US EPA Guideline OPP 72 -1

- b) Aquatic chronic toxicity: NOEC Fish Oncorhynchus mykiss = 21.5 mg/L OECD guideline 210 - 49days
- a) Aquatic acute toxicity: EC50 Daphnia Daphnia magna = 1.4 mg/L 48h OECD guideline 202
- b) Aquatic chronic toxicity: NOEC Daphnia Daphnia magna = 0.27 mg/L OECD guideline 202 - 21days
- a) Aquatic acute toxicity: NOEC Algae Skeletonema costatum = 0.08 mg/L 72h ISO 10253
- a) Aquatic acute toxicity: EC20 Sludge activated sludge = 2 mg/L OECD 209
- d) Terrestrial toxicity: LC50 Worm Eisenia foetida > 500 mg/kg OECD 207
- d) Terrestrial toxicity: EC50 soil microorganisms = 679 mg/kg OECD guideline 216 - 28days

reaction mass of 5-chloro-2methyl-2H-isothiazol-3-one and 2- 9 - INDEX: 613- EPA OPP 72-1 (Fish Acute Toxicity Test) methyl-2H-isothiazol-3-one (3:1) 167-00-5

- CAS: 55965-84- a) Aquatic acute toxicity: LC50 Fish Oncorhynchus mykiss = 0.19 mg/L 96h
 - b) Aquatic chronic toxicity: NOEC Fish Danio rerio = 0.02 mg/L ,,OECD Guideline 210 (Fish, Early-Life Stage Toxicity Test) - 35days
 - a) Aquatic acute toxicity: LC50 Daphnia Daphnia magna = 0.16 mg/L 48h EPA OPP 72-2 (Aquatic Invertebrate Acute Toxicity Test)
 - b) Aquatic chronic toxicity: NOEC Daphnia Daphnia magna = 0.1 mg/L EPA OPP 72-4 (Fish Early Life-Stage and Aquatic Invertebrate Life-Cycle Studies) -21davs
 - a) Aquatic acute toxicity: EC50 Algae Skeletonema costatum = 0 mg/L 96h ,,OECD Guideline 201 (Alga, Growth Inhibition Test)
 - a) Aquatic acute toxicity: EC50 Sludge activated sludge = 4.5 mg/L 3h ,,OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
 - d) Terrestrial toxicity: LC50 Worm Eisenia fetida = 613 mg/kg ,,OECD Guideline 207 (Earthworm, Acute Toxicity Tests) - 14days
 - e) Plant toxicity: NOEC Trifolium pratense, Oryza sativa, Brassica napus = 1000 mg/L OECD Guideline 208 (Terrestrial Plants Test: Seedling Emergence and Seedling Growth Test) - 21days

12.2. Persistence and degradability

Persitence/Degradability: Duration Component Test Value Notes: 1-methoxy-2-propanol; Readily biodegradable 69.000 28days

16/05/2024 FUGA-SOAP Date Production Name Page n. 11 of monopropylene glycol methyl ether

benzyl alcohol

Readily biodegradable Dissolved organic carbon 96.000 %; OECD Guideline 3 Sodium sulfate Readily biodegradable 28d >60% (OECD tg 301

OECD guideline 301B

bronopol (INN); 2-bromo-2-

reaction mass of 5-chloro-2-

Readily biodegradable

nitropropane-1,3-diol

Non-readily biodegradable

methyl-2H-isothiazol-3-one and 2methyl-2H-isothiazol-3-one (3:1)

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.

12.3. Bioaccumulative potential

Component	Bioaccumulation	Test	Value	Notes:
benzyl alcohol	Bioaccumulative	BCF - Bioconcentrantion factor	1.000	L/kg ww
bronopol (INN); 2-bromo-2- nitropropane-1,3-diol	Bioaccumulative	BCF - Bioconcentrantion factor		
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 or vPvB substances present in concentration >= 0.1%

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. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force. Disposal through discharge into wastewater is not permitted

The product disposed of as such, pursuant to Regulation (EU) 1357/2014, must be classified as hazardous waste

The product disposed of as such, pursuant to Regulation (EU) 1357/2014, must be classified as non-hazardous waste

A waste code according to the European List of Wastes (LoW) cannot be specified, due to dependence on the usage. Contact an authorized waste disposal service.

SECTION 14: Transport information

Not classified as dangerous in the meaning of transport regulations.

14.1. UN number or ID number

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

Date 16/05/2024 FUGA-SOAP Production Name Page n. 12 of IMDG-EMS: N/A

14.6. Special precautions for user

Road and Rail (ADR-RID):

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 Provisions: N/A

Sea (IMDG):

IMDG-Stowage Code: N/A
IMDG-Stowage Note: N/A
IMDG-Subsidiary hazards: N/A
IMDG-Special Provisions: 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 (LO) II. 2010/009 (ATF 11 CLF)

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. 2021/849 (ATP 17 CLP)

Regulation (EU) n. 2022/692 (ATP 18 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):

None

Explosives precursors - Regulation 2019/1148

No substances listed

Regulation (EU) No 649/2012 (PIC regulation)

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No substances listed

German Water Hazard Class.

1: Low hazard to waters

German Lagerklasse according to TRGS 510:

LGK 10

SVHC Substances:

No SVHC substances present in concentration >= 0.1%

REGULATION (EU) No 528/2012

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

No Chemical Safety Assessment has been carried out for the mixture.

Substances for which a Chemical Safety Assessment has been carried out:

benzyl alcohol Sodium sulfate

Code

SECTION 16: Other information

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	Classification procedure
(FC) Nr 1272/2008	

Eye Irrit. 2, H319 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

 ${\tt ADR: European \ Agreement \ concerning \ the \ International \ Carriage \ of \ Dangerous \ Goods \ by \ Road.}$

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

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

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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.

 ${\it TWATLV: Threshold\ Limit\ Value\ for\ the\ Time\ Weighted\ Average\ 8\ hour\ day.\ (ACGIH\ Standard).}$

 $v P v B \colon Very \ Persistent, \ Very \ Bioaccumulative.$

WGK: German Water Hazard Class.

Paragraphs modified from the previous revision:

- SECTION 1: Identification of the substance/mixture and of the company/undertaking
- SECTION 2: Hazards identification
- SECTION 3: Composition/information on ingredients
- SECTION 7: Handling and storage
- SECTION 8: Exposure controls/personal protection
- SECTION 9: Physical and chemical properties
- SECTION 11: Toxicological information

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- SECTION 12: Ecological information
- SECTION 13: Disposal considerations
- SECTION 14: Transport information
- SECTION 15: Regulatory information
- SECTION 16: Other information

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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. 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 (m³/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.



Exposure Scenario, 21/03/2023

Substance identity	
	Sodium sulfate
CAS No.	126-92-1
EINECS No.	204-812-8
Registration number	01-2119971586-23

Table of contents

1. **ES 1** Widespread use by professional workers; Washing and cleaning products (PC35)

1. ES 1 Widespread use by professional workers; Washing and cleaning products (PC35)

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Exposure Scenario name	Professional use of general surface cleaning products		
Date - Version	21/03/2023 - 1.0		
Life Cycle Stage	Widespread use by professional workers		
Main user group	Professional uses		
Sector(s) of use	Professional uses (SU22)		
Product Categories	Washing and cleaning products (PC35)		

Environment Contributing Scenario

CS1	ERC8a
Worker Contributing Scenario	
CS2 Rolling, Brushing	PROC10
CS3 Hand held spraying	PROC11

1.2 Conditions of use affecting exposure

1.2. CS1: Environment Contributing Scenario (ERC8a)

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

Product (article) characteristics

Physical form of product:

Liquid

Concentration of substance in product:

Covers percentage substance in the product up to 100 %.

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

Amounts used:

Application rate 1000 t(onnes)/year Daily amount per site 0.082192 kg/day

Emission days: 365 days per year

Technical and organisational conditions and measures

Control measures to prevent releases

Water - minimum efficiency of: 100 %	
--------------------------------------	--

Conditions and measures related to sewage treatment plant

STP type:

Municipal Sewage Treatment Plant STP effluent (m³/day): 2000

Other conditions affecting environmental exposure

Local marine water dilution factor: 100 Local freshwater dilution factor: 10 Receiving surface water flow: 18000 m³/day

Indoor use

1.2. CS2: Worker Contributing Scenario: Rolling, Brushing (PROC10)

Process Categories

Roller application or brushing (PROC10)

Product (article) characteristics

Physical form of product:

Liquid

Concentration of substance in product:

Covers percentage substance in the product up to 100 %.

Amount used, frequency and duration of use/exposure

Duration:

Covers use up to > 4 h

Frequency:

Covers use up to = 5 days per week

Technical and organisational conditions and measures

Technical and organisational measures

No specific measures identified.

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

Personal protection

No specific measures identified.

Other conditions affecting worker exposure

Indoor use

Professional use

1.2. CS3: Worker Contributing Scenario: Hand held spraying (PROC11)

Process Categories

Non industrial spraying (PROC11)

Product (article) characteristics

Physical form of product:

Liquid

Concentration of substance in product:

Covers percentage substance in the product up to 100 %.

Amount used, frequency and duration of use/exposure

Duration:

Covers use up to 1 h

Frequency:

Covers use up to = 5 days per week

Technical and organisational conditions and measures

Technical and organisational measures

No specific measures identified.

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

Personal protection

No specific measures identified.

Other conditions affecting worker exposure

Indoor use

Professional use

1.3 Exposure estimation and reference to its source

1.3. CS1: Environment Contributing Scenario (ERC8a)

protection target	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
freshwater	= 0.000229 mg/L	EASY TRA v4.1	= 0.001689

marine water	= 2.4E-05 mg/L	EASY TRA v4.1	= 0.001756
freshwater sediment	= 0.001003 mg/kg dry weight	EASY TRA v4.1	= 0.000669
marine sediment	= 0.000104 mg/kg dry weight	EASY TRA v4.1	= 0.000695
Agricultural soil	= 4.9E-05 mg/kg dry weight	EASY TRA v4.1	= 0.000224
wastewater treatment plant microbes	= 0.000731 mg/L	EASY TRA v4.1	= 0.000541

1.3. CS2: Worker Contributing Scenario: Rolling, Brushing (PROC10)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic, long-term	= 241.948 mg/m ³	EASY TRA v4.1	= 0.84894
dermal, systemic, long-term	= 27.429 mg/kg bw/day	EASY TRA v4.1	= 0.006756
combined routes, systemic, long-term	= 61.993 mg/kg bw/day	EASY TRA v4.1	= 0.855696

1.3. CS3: Worker Contributing Scenario: Hand held spraying (PROC11)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic, long-term	= 193.558 mg/m ³	EASY TRA v4.1	= 0.679152
dermal, systemic, long-term	= 107.143 mg/kg bw/day	EASY TRA v4.1	= 0.02639
combined routes, systemic, long-term	= 134.794 mg/kg bw/day	EASY TRA v4.1	= 0.705542

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.