

## 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 10/04/2025

version 8

## 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 11

### 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

Ireland Emergency medical information: (seven days) contact National Poisons Information Centre, Beaumont Hospital, Dublin 9 DOV2NO, Ireland.

Members of the public Number (8 am-10 pm): +353 (0)1 809 2166

Healthcare professional telephone Number (24hrs): +353 (0)1 809 2566

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.

Skin Sens. 1B May cause an allergic skin reaction.

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

H317 May cause an allergic skin reaction.

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.

P302+P352 IF ON SKIN: Wash with plenty of water.

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.

Contains

benzyl alcohol

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

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. Possible skin exposure must be avoided. Protective gloves and work clothes are required. Avoid releasing 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 Skin Sens. 1B, H317 Eye Irrit. 2, H319  Acute Toxicity Estimate: ATE - Oral: 1200mg/kg bw	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)	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

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## SECTION 4: First aid measures

### 4.1. Description of first aid measures

In case of skin contact:

- Immediately take off all contaminated clothing.
- Remove contaminated clothing immediately 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 ophthalmologist 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).

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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media:

- Water.
- Carbon dioxide (CO<sub>2</sub>).

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.

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## 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

## 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.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

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)

	OEL Type	Country	Occupational Exposure Limit
1-methoxy-2-propanol; monopropylene glycol methyl ether CAS: 107-98-2	ACGIH		Long Term: 50 ppm (8h); Short Term: 100 ppm A4 - Eye and URT irr
	EU		Long Term: 375 mg/m <sup>3</sup> - 100 ppm (8h); Short Term: 563 mg/m <sup>3</sup> - 150 ppm Skin
	NATIONAL	AUSTRIA	Long Term: 187 mg/m <sup>3</sup> - 50 ppm; Short Term: Ceiling - 187 mg/m <sup>3</sup> - 50 ppm Mow, MAK, H Source: BGBl. II Nr. 156/2021
	NATIONAL	BULGARIA	Long Term: 375 mg/m <sup>3</sup> - 100 ppm; Short Term: 568 mg/m <sup>3</sup> - 150 ppm Кожа Source: НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г.
	NATIONAL	CZECHIA	Long Term: 270 mg/m <sup>3</sup> ; Short Term: Ceiling - 550 mg/m <sup>3</sup> D Source: Nařízení vlády č. 361-2007 Sb
	NATIONAL	DENMARK	Long Term: 185 mg/m <sup>3</sup> - 50 ppm EH Source: BEK nr 2203 af 29/11/2021
	NATIONAL	ESTONIA	Long Term: 375 mg/m <sup>3</sup> - 100 ppm; Short Term: 568 mg/m <sup>3</sup> - 150 ppm A, S Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105
	NATIONAL	FINLAND	Long Term: 370 mg/m <sup>3</sup> - 100 ppm; Short Term: 560 mg/m <sup>3</sup> - 150 ppm iho Source: HTP-ARVOT 2020
	NATIONAL	FRANCE	Long Term: 188 mg/m <sup>3</sup> - 50 ppm; Short Term: 375 mg/m <sup>3</sup> - 100 ppm Risque de pénétration percutanée Source: INRS outil65, article R. 4412-149 du Code du travail
	NATIONAL	GREECE	Long Term: 360 mg/m <sup>3</sup> - 100 ppm; Short Term: 1080 mg/m <sup>3</sup> - 300 ppm Δ Source: ΦΕΚ 94/Α` 13.5.1999
	NATIONAL	HUNGARY	Long Term: 375 mg/m <sup>3</sup> ; Short Term: 568 mg/m <sup>3</sup> b, EU1, R+T Source: 5/2020. (II. 6.) ITM rendelet

NATIONAL	LITHUANIA	Long Term: 190 mg/m <sup>3</sup> - 50 ppm; Short Term: 300 mg/m <sup>3</sup> - 75 ppm Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389
NATIONAL	NETHERLANDS	Long Term: 375 mg/m <sup>3</sup> ; Short Term: 563 mg/m <sup>3</sup> Source: Arbeidsomstandighedenregeling - Lijst A
NATIONAL	NORWAY	Long Term: 180 mg/m <sup>3</sup> - 50 ppm H E Source: FOR-2021-06-28-2248
NATIONAL	POLAND	Long Term: 180 mg/m <sup>3</sup> ; Short Term: 360 mg/m <sup>3</sup> skóra Source: Dz.U. 2018 poz. 1286
NATIONAL	SLOVAKIA	Long Term: 375 mg/m <sup>3</sup> - 100 ppm; Short Term: 568 mg/m <sup>3</sup> - 150 ppm K Source: 355 NARIADENIE VLÁDY z 10. mája 2006
NATIONAL	SWEDEN	Long Term: 190 mg/m <sup>3</sup> - 50 ppm; Short Term: 568 mg/m <sup>3</sup> - 150 ppm H Source: AFS 2021:3
SUVA	SWITZERLAND	Long Term: 360 mg/m <sup>3</sup> - 100 ppm; Short Term: 720 mg/m <sup>3</sup> - 200 ppm SSC, B, VRS Yeux / OAW Auge Source: suva.ch/valeurs-limites
WEL-EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	Long Term: 375 mg/m <sup>3</sup> - 100 ppm; Short Term: 560 mg/m <sup>3</sup> - 150 ppm Sk Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020)
NATIONAL	BELGIUM	Long Term: 184 mg/m <sup>3</sup> - 50 ppm; Short Term: 369 mg/m <sup>3</sup> - 100 ppm D Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1
NATIONAL	CROATIA	Long Term: 375 mg/m <sup>3</sup> - 100 ppm; Short Term: 568 mg/m <sup>3</sup> - 150 ppm Source: 2000/39/EZ
NATIONAL	CYPRUS	Long Term: 375 mg/m <sup>3</sup> - 100 ppm; Short Term: 568 mg/m <sup>3</sup> - 150 ppm δέρμα Source: Οι περί Ασφάλειας και Υγείας στην Εργασία (Χημικοί Παράγοντες) Κανονισμοί του 2001 έως 2021
NATIONAL	GERMANY	Long Term: 370 mg/m <sup>3</sup> - 100 ppm DFG, EU, Y, 2(I) Source: TRGS 900
NATIONAL	IRELAND	Long Term: 375 mg/m <sup>3</sup> - 100 ppm; Short Term: 568 mg/m <sup>3</sup> - 150 ppm IOELV Source: 2021 Code of Practice
NATIONAL	ITALY	Long Term: 375 mg/m <sup>3</sup> - 100 ppm; Short Term: 568 mg/m <sup>3</sup> - 150 ppm Cute Source: D.lgs. 81/2008, Allegato XXXVIII
NATIONAL	LATVIA	Long Term: 375 mg/m <sup>3</sup> - 100 ppm; Short Term: 568 mg/m <sup>3</sup> - 150 ppm Āda Source: KN325P1
NATIONAL	LUXEMBOURG	Long Term: 375 mg/m <sup>3</sup> - 100 ppm; Short Term: 568 mg/m <sup>3</sup> - 150 ppm Peau Source: Mémorial A n.226 du 22 mars 2021
NATIONAL	MALTA	Long Term: 375 mg/m <sup>3</sup> - 100 ppm; Short Term: 568 mg/m <sup>3</sup> - 150 ppm skin Source: S.L.424.24
NATIONAL	PORTUGAL	Long Term: 375 mg/m <sup>3</sup> - 100 ppm; Short Term: 568 mg/m <sup>3</sup> - 150 ppm Source: Decreto-Lei n.º 1/2021
NATIONAL	ROMANIA	Long Term: 375 mg/m <sup>3</sup> - 100 ppm; Short Term: 568 mg/m <sup>3</sup> - 150 ppm P, Dir. 2000/39 Source: Republicarea 1 - nr. 743 din 29 iulie 2021
NATIONAL	SLOVENIA	Long Term: 375 mg/m <sup>3</sup> - 100 ppm; Short Term: 568 mg/m <sup>3</sup> - 150 ppm K, Y, BAT, EU1 Source: UL št. 72, 11. 5. 2021

benzyl alcohol CAS: 100-51-6	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
	NATIONAL	LATVIA	Long Term: 5 mg/m3 Source: KN325P1
	NATIONAL	LITHUANIA	Long Term: 5 mg/m3 O Ū 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	SWITZERLAND	Long Term: 22 mg/m3 - 5 ppm R/H, SSC, VR / AW, NIOSH, La substance peut être présente sous forme de vapeur et d'aérosol en même temps / Der Stoff kann gleichzeitig als Dampf und Aerosol vorliegen Source: suva.ch/valeurs-limites
sodium hydroxide; caustic soda CAS: 1310-73-2	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 K, Y Source: UL št. 72, 11. 5. 2021
	ACGIH		Short Term: Ceiling - 2 mg/m3 URT, eye, and skin irr
	NATIONAL	ROMANIA	Long Term: 1 mg/m3; Short Term: 3 mg/m3
	NATIONAL	AUSTRIA	Long Term: 2 mg/m3; Short Term: Ceiling - 4 mg/m3 5(Mow), 8x, MAK, E Source: BGBl. II Nr. 156/2021
	NATIONAL	BULGARIA	Long Term: 2 mg/m3 Source: НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г.
	NATIONAL	CZECHIA	Long Term: 1 mg/m3; Short Term: Ceiling - 2 mg/m3 I Source: Nařízení vlády č. 361-2007 Sb
	NATIONAL	DENMARK	Short Term: Ceiling - 2 mg/m3 L Source: BEK nr 2203 af 29/11/2021
	NATIONAL	ESTONIA	Long Term: 1 mg/m3; Short Term: 2 mg/m3 * Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105
	NATIONAL	FINLAND	Short Term: Ceiling - 2 mg/m3 kattoarvo Source: HTP-ARVOT 2020
	NATIONAL	FRANCE	Long Term: 2 mg/m3 Source: INRS outil65
	NATIONAL	GREECE	Long Term: 2 mg/m3; Short Term: 2 mg/m3 Source: ΦΕΚ 94/Α` 13.5.1999
	NATIONAL	HUNGARY	Long Term: 1 mg/m3; Short Term: 2 mg/m3 m, N Source: 5/2020. (II. 6.) ITM rendelet
	NATIONAL	LATVIA	Long Term: 0.5 mg/m3 Source: KN325P1
	NATIONAL	LITHUANIA	Short Term: Ceiling - 2 mg/m3 Ū Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389

2-methoxypropanol CAS: 1589-47-5	NATIONAL	NORWAY	Short Term: Ceiling - 2 mg/m <sup>3</sup> T Source: FOR-2021-06-28-2248
	NATIONAL	POLAND	Long Term: 0.5 mg/m <sup>3</sup> ; Short Term: 1 mg/m <sup>3</sup> Source: Dz.U. 2018 poz. 1286
	NATIONAL	SLOVAKIA	Long Term: 2 mg/m <sup>3</sup> Source: 355 NARIADENIE VLÁDY z 10. mája 2006
	NATIONAL	SWEDEN	Long Term: 1 mg/m <sup>3</sup> ; Short Term: 2 mg/m <sup>3</sup> 3 Source: AFS 2021:3
	SUVA	SWITZERLAND	Long Term: 2 mg/m <sup>3</sup> ; Short Term: 2 mg/m <sup>3</sup> TWA mg/m <sup>3</sup> : (i), SSC, VRS Peau Yeux / OAW Haut Auge, NIOSH OSHA Source: suva.ch/valeurs-limites
	WEL-EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	Short Term: 2 mg/m <sup>3</sup> Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020)
	NATIONAL	BELGIUM	Long Term: 2 mg/m <sup>3</sup> M Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1
	NATIONAL	CROATIA	Short Term: 2 mg/m <sup>3</sup> Source: NN 1/2021
	NATIONAL	IRELAND	Short Term: 2 mg/m <sup>3</sup> Source: 2021 Code of Practice
	NATIONAL	SPAIN	Short Term: 2 mg/m <sup>3</sup> Source: LEP 2022
	NATIONAL	AUSTRIA	Long Term: 75 mg/m <sup>3</sup> - 20 ppm; Short Term: 300 mg/m <sup>3</sup> - 80 ppm 15(Miw), 8x, MAK, D, H Source: BGBl. II Nr. 156/2021
	NATIONAL	DENMARK	Long Term: 75 mg/m <sup>3</sup> - 20 ppm Source: BEK nr 2203 af 29/11/2021
	NATIONAL	NORWAY	Long Term: 75 mg/m <sup>3</sup> - 20 ppm H R Source: FOR-2021-06-28-2248
	NATIONAL	SLOVAKIA	Long Term: 19 mg/m <sup>3</sup> - 5 ppm K Source: 355 NARIADENIE VLÁDY z 10. mája 2006
	SUVA	SWITZERLAND	Long Term: 19 mg/m <sup>3</sup> - 5 ppm; Short Term: 152 mg/m <sup>3</sup> - 40 ppm R/H, R1BD, R1BF, SSB, Irritation / Reizung Source: suva.ch/valeurs-limites
	NATIONAL	GERMANY	Long Term: 19 mg/m <sup>3</sup> - 5 ppm DFG, H, Z, 2(I) Source: TRGS 900
	NATIONAL	SLOVENIA	Long Term: 19 mg/m <sup>3</sup> - 5 ppm; Short Term: 152 mg/m <sup>3</sup> - 40 ppm K, RD1B Source: UL št. 72, 11. 5. 2021
	NATIONAL	SPAIN	Long Term: 19 mg/m <sup>3</sup> - 5 ppm TR1B, r Source: LEP 2022
	NATIONAL	LATVIA	Long Term: 5 mg/m <sup>3</sup> Source: KN325P1
	NATIONAL	LITHUANIA	Long Term: 5 mg/m <sup>3</sup> Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389
citral CAS: 5392-40-5	ACGIH		Long Term: 5 ppm (8h) IFV, Skin, DSEN, A4 - Body weight eff, URT irr, eye dam
	NATIONAL	POLAND	Long Term: 27 mg/m <sup>3</sup> ; Short Term: 54 mg/m <sup>3</sup> Source: Dz.U. 2018 poz. 1286

(R)-p-mentha-1,8-diene CAS: 5989-27-5	NATIONAL	BELGIUM	Long Term: 32 mg/m3 - 5 ppm D Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1
	NATIONAL	IRELAND	Long Term: 5 ppm IFV Source: 2021 Code of Practice
	NATIONAL	FINLAND	Long Term: 140 mg/m3 - 25 ppm; Short Term: 280 mg/m3 - 50 ppm Source: HTP-ARVOT 2020
	NATIONAL	NORWAY	Long Term: 140 mg/m3 - 25 ppm A Source: FOR-2021-06-28-2248
	SUVA	SWITZERLAND	Long Term: 40 mg/m3 - 7 ppm; Short Term: 80 mg/m3 - 14 ppm S, SSC, Foie / Leber Source: suva.ch/valeurs-limites
	NATIONAL	GERMANY	Long Term: 28 mg/m3 - 5 ppm DFG, H, Sh, Y, 4(II) Source: TRGS 900
	NATIONAL	SLOVENIA	Long Term: 28 mg/m3 - 5 ppm; Short Term: 112 mg/m3 - 20 ppm K, Y Source: UL št. 72, 11. 5. 2021
2,6-di-tert-butyl-p-cresol CAS: 128-37-0	NATIONAL	SPAIN	Long Term: 168 mg/m3 - 30 ppm Sen, vía dérmica Source: LEP 2022
	ACGIH		Long Term: 2 mg/m3 (8h) IFV, A4 - URT irr
	NATIONAL	BELGIUM	Long Term: 2 mg/m3 Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1
	NATIONAL	CROATIA	Long Term: 10 mg/m3 Source: NN 1/2021
	NATIONAL	GERMANY	Long Term: 10 mg/m3 DFG, Y, 11, E, 4 (II) Source: TRGS 900
	NATIONAL	IRELAND	Long Term: 2 mg/m3 Source: 2021 Code of Practice
	NATIONAL	SLOVENIA	Long Term: 10 mg/m3; Short Term: 40 mg/m3 Y, (I) Source: UL št. 72, 11. 5. 2021
	NATIONAL	SPAIN	Long Term: 10 mg/m3 Source: LEP 2022
	NATIONAL	AUSTRIA	Long Term: 10 mg/m3 MAK Source: GKV, BGBl. II Nr. 156/2021
	NATIONAL	BULGARIA	Long Term: 10 mg/m3; Short Term: 50 mg/m3 Source: НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г.
	NATIONAL	DENMARK	Long Term: 10 mg/m3 Source: BEK nr 2203 af 29/11/2021
	NATIONAL	FINLAND	Long Term: 10 mg/m3; Short Term: 20 mg/m3 Source: HTP-ARVOT 2020
	NATIONAL	FRANCE	Long Term: 10 mg/m3 Source: INRS outil65
	NATIONAL	GREECE	Long Term: 10 mg/m3 Source: ΦΕΚ 94/Α` 13.5.1999
	SUVA	SWITZERLAND	Long Term: 10 mg/m3; Short Term: 40 mg/m3 TWA mg/m3: (i), C1#B, SSC, Foie / Leber, Pas de risque accru de cancer si la VME est respectée. La substance peut être présente sous forme de vapeur et d'aérosol en même temps / Kein erhöhtes Krebsrisiko bei Einhalten des MAK-Werts. Der Stoff kann gleichzeitig als Dampf und Aerosol vorliegen. Source: suva.ch/valeurs-limites



WEL-EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	Long Term: 10 mg/m3 Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020)
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reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) CAS: 55965-84-9	NATIONAL GERMANY	Long Term: 0.2 mg/m3; Short Term: 0.4 mg/m3 DFG; Long term and short term: inhalable fraction Source: TRGS900
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NATIONAL	AUSTRIA	Long Term: 0.05 mg/m3 MAK, Sh Source: GKV, BGBl. II Nr. 156/2021
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SUVA	SWITZERLAND	Long Term: 0.2 mg/m3; Short Term: 0.4 mg/m3 TWA mg/m3: (i), S, SSC, VRS Peau Yeux / OAW Haut Auge Source: suva.ch/valeurs-limites
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### 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
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### 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
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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
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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-2-nitropropane-1,3-diol CAS: 52-51-7	Exposure Route: Fresh Water; PNEC Limit: 10 µg/l
---	--

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

Exposure Route: Freshwater sediments; PNEC Limit: 41 µg/l

Exposure Route: Marine water sediments; PNEC Limit: 3.28 µg/kg

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

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) CAS: 55965-84-9	Exposure Route: Fresh Water; PNEC Limit: 3.39 µg/l
--	--

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 µg/l

Exposure Route: Marine water sediments; PNEC Limit: 27 µg/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/m<sup>3</sup>; Consumer: 43.9 mg/m<sup>3</sup>

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects  
Worker Professional: 553.5 mg/m<sup>3</sup>

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects  
Worker Professional: 553.5 mg/m<sup>3</sup>

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/m<sup>3</sup>; Consumer: 8.1 mg/m<sup>3</sup>

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects  
Worker Professional: 450 mg/m<sup>3</sup>; Consumer: 40.5 mg/m<sup>3</sup>

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

bronopol (INN); 2-bromo-  
2-nitropropane-1,3-diol  
CAS: 52-51-7

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects  
Worker Professional: 4.1 mg/m<sup>3</sup>; Consumer: 1.2 mg/m<sup>3</sup>

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects  
Worker Professional: 12.3 mg/m<sup>3</sup>

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects  
Worker Professional: 4.2 mg/m<sup>3</sup>; Consumer: 1.3 mg/m<sup>3</sup>

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects  
Worker Professional: 4.2 mg/m<sup>3</sup>; Consumer: 1.3 mg/m<sup>3</sup>

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

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/cm<sup>2</sup>; Consumer: 0.008 mg/cm<sup>2</sup>

Exposure Route: Human Dermal; Exposure Frequency: Short Term, local effects  
Worker Professional: 0.013 mg/cm<sup>2</sup>; Consumer: 0.008 mg/cm<sup>2</sup>

reaction mass of 5-  
chloro-2-methyl-2H-  
isothiazol-3-one and 2-  
methyl-2H-isothiazol-3-  
one (3:1)  
CAS: 55965-84-9

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects  
Worker Professional: 20 µg/m<sup>3</sup>; Consumer: 20 µg/m<sup>3</sup>

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects  
Worker Professional: 40 µg/m<sup>3</sup>; Consumer: 20 µg/m<sup>3</sup>

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.

---

## 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:  $\geq 6.00 \leq 8.00$

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

---

## 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	The product is classified: Skin Sens. 1B(H317)
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  LC50 Inhalation Vapour Rat Negative 6h LD50 Skin Rat > 2000 mg/kg	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 Guinea pig Negative	
	f) carcinogenicity	Genotoxicity Carcinogenicity Negative	Mouse intraperitoneal route
	g) reproductive toxicity	No Observed Adverse Effect Level Inhalation Rat = 300 ppm	
benzyl alcohol	a) acute toxicity	ATE - Oral : 1200 mg/kg bw LD50 Oral Rat = 1620 mg/kg LC50 Inhalation of aerosol Rat > 4178 mg/m <sup>3</sup> 4h LD50 Skin Rabbit > 2000 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 Carcinogenicity Oral Rat Negative	Mouse
	g) reproductive toxicity	No Observed Adverse Effect Level Oral = 200 mg/kg	Mouse
bronopol (INN); 2-bromo-2-nitropropane-1,3-diol	a) acute toxicity	LD50 Oral Rat = 305 mg/kg	

		LC50 Inhalation of aerosol Rat $\geq$ 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 Guinea pig Negative	
	f) carcinogenicity	Genotoxicity Negative	Mouse oral route
		Carcinogenicity Oral Rat Negative	
	g) reproductive toxicity	No Observed Adverse Effect Level Oral Rat 200	
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 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	
	g) reproductive toxicity	No Observed Adverse Effect Level Oral Rat = 22.7 mg/kg	

## 11.2. Information on other hazards

### Endocrine disrupting properties:

No endocrine disruptor substances present in concentration  $\geq$  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 <i>Leuciscus idus</i> = 6812 mg/L OECD guideline 203
		a) Aquatic acute toxicity : LC50 <i>Daphnia</i> = 23300 mg/L 48h OECD guideline 202
		a) Aquatic acute toxicity : EC50 Algae = 1000 mg/L OECD guideline 201 - 7days
		a) Aquatic acute toxicity : NOEC Sludge = 1000 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 <i>Oryzias latipes</i> = 460 mg/L 96h OECD SIDS (2001)
		b) Aquatic chronic toxicity : NOEC Fish = 48.897 mg/L ECOSAR QSAR
		a) Aquatic acute toxicity : LC50 <i>Daphnia magna</i> = 230 mg/L 48h OECD SIDS (2001)

bronopol (INN); 2-bromo-2-nitropropane-1,3-diol	CAS: 52-51-7 - EINECS: 200-143-0 - INDEX: 603-085-00-8	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
		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
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	d) Terrestrial toxicity : EC50 soil microorganisms = 679 mg/kg OECD guideline 216 - 28days
		a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss = 0.19 mg/L 96h EPA OPP 72-1 (Fish Acute Toxicity Test)
		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) - 21days
		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

Component	Persitence/Degradability:	Test	Duration	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 3
Sodium sulfate	Readily biodegradable		28d		>60% (OECD tg 301
bronopol (INN); 2-bromo-2-nitropropane-1,3-diol	Readily biodegradable				OECD guideline 301B
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 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 - Bioconcentration factor	1.000	L/kg ww
bronopol (INN); 2-bromo-2-nitropropane-1,3-diol	Bioaccumulative	BCF - Bioconcentration factor		
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	Bioaccumulative	BCF - Bioconcentration 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  $\geq 0.1\%$

#### 12.6. Endocrine disrupting properties

No endocrine disruptor substances present in concentration  $\geq 0.1\%$

#### 12.7. Other adverse effects

N.A.

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### 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. Disposal through discharge into wastewater is not permitted

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.

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

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### SECTION 14: Transport information

Not classified as dangerous in the meaning of transport regulations.

#### 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-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.

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### **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. 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)**

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  $\geq 0.1\%$

#### **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

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## SECTION 16: Other information

Code	Description
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
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/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
3.4.2/1B	Skin Sens. 1B	Skin Sensitisation, Category 1B
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
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Eye Irrit. 2, H319	Calculation method
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Skin Sens. 1B, H317	Calculation method
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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:**

- SECTION 1: Identification of the substance/mixture and of the company/undertaking
- SECTION 2: Hazards identification
- SECTION 3: Composition/information on ingredients
- SECTION 4: First aid measures
- SECTION 8: Exposure controls/personal protection
- SECTION 11: Toxicological information
- SECTION 12: Ecological information
- SECTION 13: Disposal considerations
- SECTION 16: Other 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. ES 1		Widespread use by professional workers; Various products (PC9b, PC9a, PC1, PC15); Building and construction work (SU19)	
<b>1.1 TITLE SECTION</b>			
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)		
<b>Environment Contributing Scenario</b>			
CS1	ERC8a - ERC8d		
<b>Worker Contributing Scenario</b>			
CS2	PROC8a - PROC10		
<b>1.2 Conditions of use affecting exposure</b>			
<b>1.2. CS1: Environment Contributing Scenario (ERC8a, ERC8d)</b>			
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)		
<i>Product (article) characteristics</i>			
<b>Physical form of product:</b> Liquid, vapour pressure < 10 Pa (Standard Temperature and Pressure)			
<b>Vapour pressure:</b> = 7 Pa			
<i>Amount used, frequency and duration of use (or from service life)</i>			
<b>Amounts used:</b> Annual site tonnage = 1000 t(tonnes)/year			
<b>Release type:</b> Continuous release			
<b>Emission days:</b> 365 days per year			
<i>Conditions and measures related to sewage treatment plant</i>			
<b>STP type:</b> Municipal Sewage Treatment Plant Water - minimum efficiency of: = 87.36 %			
<b>STP effluent (m³/day):</b> 2000			
<i>Conditions and measures related to treatment of waste (including article waste)</i>			
<b>Waste treatment</b> Product residual disposal complies with applicable regulations.			
<b>1.2. CS2: Worker Contributing Scenario (PROC8a, PROC10)</b>			
Process Categories	Transfer of substance or mixture (charging and discharging) at non-dedicated facilities - Roller application or brushing (PROC8a, PROC10)		
<i>Product (article) characteristics</i>			
<b>Physical form of product:</b> Liquid			

**Vapour pressure:**

&lt; 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 %
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**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

### Sodium sulfate

## 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)	
<b>1.1 TITLE SECTION</b>			
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)		
<b>Environment Contributing Scenario</b>			
CS1	ERC8a		
<b>Worker Contributing Scenario</b>			
CS2 Rolling, Brushing	PROC10		
CS3 Hand held spraying	PROC11		
<b>1.2 Conditions of use affecting exposure</b>			
<b>1.2. CS1: Environment Contributing Scenario (ERC8a)</b>			
Environmental release categories	Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a)		
<i>Product (article) characteristics</i>			
<b>Physical form of product:</b> Liquid			
<b>Concentration of substance in product:</b> Covers percentage substance in the product up to 100 %.			
<i>Amount used, frequency and duration of use (or from service life)</i>			
<b>Amounts used:</b> Application rate 1000 t(tonnes)/year Daily amount per site 0.082192 kg/day			
<b>Emission days:</b> 365 days per year			
<i>Technical and organisational conditions and measures</i>			
<b>Control measures to prevent releases</b>			
		Water - minimum efficiency of: 100 %	
<i>Conditions and measures related to sewage treatment plant</i>			
<b>STP type:</b> Municipal Sewage Treatment Plant			
<b>STP effluent (m³/day):</b> 2000			
<i>Other conditions affecting environmental exposure</i>			
<b>Local marine water dilution factor:</b> 100 <b>Local freshwater dilution factor:</b> 10 <b>Receiving surface water flow:</b> 18000 m³/day Indoor use			
<b>1.2. CS2: Worker Contributing Scenario: Rolling, Brushing (PROC10)</b>			

Process Categories	Roller application or brushing (PROC10)		
<i>Product (article) characteristics</i>			
Physical form of product: Liquid			
Concentration of substance in product: Covers percentage substance in the product up to 100 %.			
<i>Amount used, frequency and duration of use/exposure</i>			
Duration: Covers use up to > 4 h			
Frequency: Covers use up to = 5 days per week			
<i>Technical and organisational conditions and measures</i>			
Technical and organisational measures No specific measures identified.			
<i>Conditions and measures related to personal protection, hygiene and health evaluation</i>			
Personal protection No specific measures identified.			
<i>Other conditions affecting worker exposure</i>			
Indoor use Professional use			
1.2. CS3: Worker Contributing Scenario: Hand held spraying (PROC11)			
Process Categories	Non industrial spraying (PROC11)		
<i>Product (article) characteristics</i>			
Physical form of product: Liquid			
Concentration of substance in product: Covers percentage substance in the product up to 100 %.			
<i>Amount used, frequency and duration of use/exposure</i>			
Duration: Covers use up to 1 h			
Frequency: Covers use up to = 5 days per week			
<i>Technical and organisational conditions and measures</i>			
Technical and organisational measures No specific measures identified.			
<i>Conditions and measures related to personal protection, hygiene and health evaluation</i>			
Personal protection No specific measures identified.			
<i>Other conditions affecting worker exposure</i>			
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 <sup>3</sup>	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 <sup>3</sup>	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.