

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

#### 1.1. Product identifier

Product form : Mixture  
 Name : James Basic Cleaner  
 UFI : P51D-5YMA-VQ4G-XP59  
 Product code : 5100.13\_76068RV\*\*  
 Type of product : Detergent, Treated article (Biocide)  
 Product group : Trade product  
 Other means of identification :

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

##### 1.2.1. Relevant identified uses

Main use category : Professional use, Consumer use  
 Industrial/Professional use spec : A.I.S.E. Guidance on Detergents Safe Use Mixture Information (SUMI):  
<https://aise.eu/priorities/product-stewardship/chemicals-management/reach/downstream-communications/>  
 Use of the substance/mixture : The data given here is based on the product properties as mentioned in section 1.1. and is provided on the assumption, that the product will be used in the manner and for the purposes for which the manufacturer indicates.  
 Use of the substance/mixture : Cleaner  
 Floor cleaner.  
 Function or use category : Cleaning/washing agents and additives

Title	Use descriptors
Professional uses; Brushing after trigger spraying or brushing with tools	SU22, PC35, PROC10, ERC8a, AISE SPERC 8a.1.a.v2
Professional uses; Manual application	SU22, PC35, PROC19, ERC8a, AISE SPERC 8a.1.a.v2
Professional uses; Semi-closed system	SU22, PC35, PROC2, ERC8a, AISE SPERC 8a.1.a.v2
Transfer of product via a dedicated system (bottle/machine)	SU22, PC35, PROC8b, ERC8a, AISE SPERC 8a.1.a.v2
Consumer use of washing and cleaning products	SU21, PC35, ERC8a

Full text of use descriptors: see section 16

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

James B.V.  
 Spikweien 2  
 NL 5943 AD Venlo  
 Nederland  
 T +31 (0) 773278000  
[info@james.eu](mailto:info@james.eu)

#### 1.4. Emergency telephone number

Emergency number : See Section 1.3; Only during office hours

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Country/Area	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
Malta	Medicines & Poisons Info Office	Mater Dei Hospital Msida MSD 2090 Msida	112 +356 2545 6508	
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0344 892 0111	Only for healthcare professionals

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Serious eye damage/eye irritation, Category 2 H319

Full text of H- and EUH-statements: see section 16

#### Adverse physicochemical, human health and environmental effects

No additional information available

### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS07

Signal word (CLP)

: Warning

Hazard statements (CLP)

: H319 - Causes serious eye irritation.

Precautionary statements (CLP)

: P102 - Keep out of reach of children.

P280 - Wear eye protection.

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

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

EUH-statements

: EUH208 - Contains D-LIMONENE. May produce an allergic reaction.

Intended for general public

Child-resistant fastening

: Not applicable

Tactile warning

: Not applicable

### 2.3. Other hazards

Contains no PBT and/or vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

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### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

Name	Product identifier	Conc. (% w/w)	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Water (INCI: AQUA) substance with national workplace exposure limit(s) (LV)	CAS-No.: 7732-18-5 EC-No.: 231-791-2	30 – 100	Not classified
3-butoxypropan-2-ol (INCI: PROPYLENE GLYCOL BUTYL ETHER)	CAS-No.: 5131-66-8 EC-No.: 225-878-4 EC Index-No.: 603-052-00-8 REACH-no: 01-2119475527-28	5 – 10	Skin Irrit. 2, H315 Eye Irrit. 2, H319
1-methoxy-2-propanol; monopropylene glycol methyl ether (INCI: METHOXYISOPROPANOL) substance with national workplace exposure limit(s) (BE, BG, DK, DE, FI, FR, GR, HU, LT, LU, NL, AT, PL, PT, SI, SK, ES, CZ, GB, SE); substance with a Community workplace exposure limit	CAS-No.: 107-98-2 EC-No.: 203-539-1 EC Index-No.: 603-064-00-3 REACH-no: 01-2119457435-35	5 – 10	Flam. Liq. 3, H226 STOT SE 3, H336
2-phenoxyethanol (INCI: PHENOXYETHANOL) (Active substance (Biocide)) substance with national workplace exposure limit(s) (DE, FI, AT, PL, SI)	CAS-No.: 122-99-6 EC-No.: 204-589-7 EC Index-No.: 603-098-00-9 REACH-no: 01-2119488943-21	1 – 5	Flam. Liq. Not classified Acute Tox. 4 (Oral), H302 Acute Tox. Not classified (Dermal) Eye Dam. 1, H318 STOT SE 3, H335
Sodiumoctylsulfate (INCI: SODIUM ETHYLHEXYL SULFATE)	CAS-No.: 126-92-1 EC-No.: 204-812-8 REACH-no: 01-2119971586-23	1 – 5	Skin Irrit. 2, H315 Eye Dam. 1, H318
Sodium cumenesulfonate (INCI: SODIUM CUMENESULFONATE)	CAS-No.: 15763-76-5 EC-No.: 248-983-7 EC Index-No.: 239-854-6 REACH-no: 01-2119489411-37	1 – 5	Eye Irrit. 2, H319
Potassiumcocoate (INCI: POTASSIUM COCOATE)	CAS-No.: 61789-30-8 EC-No.: 263-049-9	0,1 – 1	Eye Irrit. 2, H319
(R)-p-mentha-1,8-diene (D-Limonene) (INCI: D-LIMONENE) substance with national workplace exposure limit(s) (DE, FI, ES)	CAS-No.: 5989-27-5 EC-No.: 227-813-5 EC Index-No.: 601-029-00-7 REACH-no: 01-2119529223-47	0,1 – 1	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 3, H412
Sodium hydroxide (INCI: SODIUM HYDROXIDE) substance with national workplace exposure limit(s) (BE, BG, DK, EE, FI, FR, GR, HU, IE, HR, LV, LT, AT, PL, PT, RO, SI, SK, ES, CZ, GB, SE)	CAS-No.: 1310-73-2 EC-No.: 215-185-5 EC Index-No.: 011-002-00-6 REACH-no: 01-2119457892-27	0,1 – 1	Met. Corr. 1, H290 Skin Corr. 1, H314 Eye Dam. 1, H318
Citral (INCI: CITRAL) substance with national workplace exposure limit(s) (PL, ES)	CAS-No.: 5392-40-5 EC-No.: 226-394-6 EC Index-No.: 605-019-00-3 REACH-no: 01-2119462829-23	≤ 0,1	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317

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Name	Product identifier	Conc. (% w/w)	Classification according to Regulation (EC) No. 1272/2008 [CLP]
alpha-Pinene (INCI: PINENE) substance with national workplace exposure limit(s) (BE, LT, PT)	CAS-No.: 80-56-8 EC-No.: 201-291-9 REACH-no: 01-2119519223-49	≤ 0,1	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2(10)-Pinene [Bicyclo(3.1.1)heptane, 6,6-dimethyl-2-methylene-] (INCI: BETA-PINENES) substance with national workplace exposure limit(s) (BE, EE, LT, PT, ES, SE)	CAS-No.: 127-91-3 EC-No.: 204-872-5	< 0,1	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,6-di-tert-butyl-p-cresol (INCI: BHT) substance with national workplace exposure limit(s) (BE, BG, DK, DE, FI, FR, GR, HR, AT, PT, SI, ES, GB)	CAS-No.: 128-37-0 EC-No.: 204-881-4 REACH-no: 01-2119555270-46	< 0,1	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
1-methyl-4-isopropylbenzene (INCI: P-CYMENE) substance with national workplace exposure limit(s) (DK, LT, SE)	CAS-No.: 99-87-6 EC-No.: 202-796-7 REACH-no: 01-2119881770-31	< 0,1	Flam. Liq. 3, H226 Acute Tox. 3 (Inhalation:dust,mist), H331 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Benzyl alcohol (INCI: BENZYL ALCOHOL) substance with national workplace exposure limit(s) (BG, FI, LV, LT, PL, CZ)	CAS-No.: 100-51-6 EC-No.: 202-859-9 EC Index-No.: 603-057-00-5 REACH-no: 01-2119492630-38	< 0,1	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:dust,mist), H332 Eye Irrit. 2, H319 Skin Sens. 1B, H317

### Specific concentration limits:

Name	Product identifier	Specific concentration limits (Conc. (% w/w))
3-butoxypropan-2-ol (INCI: PROPYLENE GLYCOL BUTYL ETHER)	CAS-No.: 5131-66-8 EC-No.: 225-878-4 EC Index-No.: 603-052-00-8 REACH-no: 01-2119475527-28	(20 ≤ C < 100) Skin Irrit. 2; H315 (20 ≤ C < 100) Eye Irrit. 2; H319
Sodiumoctylsulfate (INCI: SODIUM ETHYLHEXYL SULFATE)	CAS-No.: 126-92-1 EC-No.: 204-812-8 REACH-no: 01-2119971586-23	(10 ≤ C < 20) Eye Irrit. 2; H319 (20 ≤ C < 100) Eye Dam. 1; H318
Sodium hydroxide (INCI: SODIUM HYDROXIDE)	CAS-No.: 1310-73-2 EC-No.: 215-185-5 EC Index-No.: 011-002-00-6 REACH-no: 01-2119457892-27	(0,5 ≤ C < 2) Eye Irrit. 2; H319 (0,5 ≤ C < 2) Skin Irrit. 2; H315 (2 ≤ C < 5) Skin Corr. 1B; H314 (5 ≤ C < 100) Skin Corr. 1A; H314

Full text of H- and EUH-statements: see section 16

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### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Allow affected person to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

Symptoms/effects after inhalation	: Inhalation unlikely.
Symptoms/effects after skin contact	: May cause an allergic skin reaction. May cause slight irritation to the skin.
Symptoms/effects after eye contact	: Causes serious eye irritation. Blurred vision. Burning sensation. Redness, pain.
Symptoms/effects after ingestion	: May cause a light irritation of the linings of the mouth, throat, and gastrointestinal tract.

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

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.

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

No additional information available

#### 5.3. Advice for firefighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

### SECTION 6: Accidental release measures

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

General measures	: Concerning personal protective equipment to use, see section 8. Material spilled on hard surface can present a serious slipping/falling hazard.
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##### 6.1.1. For non-emergency personnel

Emergency procedures	: Evacuate unnecessary personnel.
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##### 6.1.2. For emergency responders

Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters.

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### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. Dispose of in accordance with relevant local regulations. Wash away remainder with plenty of water.

### 6.4. Reference to other sections

See Section 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Normal precautions for the use of chemicals and cleaners should be taken care of. See information supplied by the manufacturer.

Hygiene measures : Do not eat, drink or smoke when using this product.

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

Storage conditions : Keep only in the original container in a cool, well ventilated place. Keep container tightly closed. Protect from freezing.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

#### Switzerland

Storage class (LK) : LK 10/12 - Liquids

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

Water (7732-18-5)	
Latvia - Occupational Exposure Limits	
Local name	pēc Cr(hroma-amonija alauns)
OEL TWA	0,02 mg/m <sup>3</sup>
1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	1-Methoxypropanol-2
IOEL TWA	375 mg/m <sup>3</sup>
	100 ppm
IOEL STEL	568 mg/m <sup>3</sup>
	150 ppm
Remark	Skin
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC

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1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2)	
<b>Austria - Occupational Exposure Limits</b>	
Local name	1-Methoxypropanol-2
MAK (OEL TWA)	187 mg/m <sup>3</sup>
	50 ppm
MAK (OEL STEL)	187 mg/m <sup>3</sup> (Mow)
	50 ppm (Mow)
Remark	H
Regulatory reference	BGBl. II Nr. 238/2018
<b>Belgium - Occupational Exposure Limits</b>	
Local name	1-Méthoxy-2-propanol # 1-Methoxy-2-propanol
OEL TWA	184 mg/m <sup>3</sup>
	50 ppm
OEL STEL	369 mg/m <sup>3</sup>
	100 ppm
Remark	D: la mention "D" signifie que la résorption de l'agent, via la peau, les muqueuses ou les yeux, constitue une partie importante de l'exposition totale. Cette résorption peut se faire tant par contact direct que par présence de l'agent dans l'air. # D: de vermelding "D" betekent dat de opname van het agens via de huid, de slijmvliezen of de ogen een belangrijk deel van de totale blootstelling vormt. Deze opname kan het gevolg zijn van zowel direct contact als zijn aanwezigheid in de lucht.
Regulatory reference	Koninklijk besluit/Arrêté royal 16/11/2023
<b>Bulgaria - Occupational Exposure Limits</b>	
Local name	1-Метоксипропан-2-ол
OEL TWA	375 mg/m <sup>3</sup>
	100 ppm
OEL STEL	568 mg/m <sup>3</sup>
	150 ppm
Remark	Кожа (възможна е значителна резорбция чрез кожата); • (Химични агенти, за които са определени гранични стойности във въздуха на работната среда за Европейската общност)
Regulatory reference	Наредба № 13 от 30.12.2003 г. за защита на работещите от рискове, свързани с експозиция на химични агенти при работа (изм. и доп. ДВ. бр. 28 от 2024 г., в сила от 05.04.2024 г.)
<b>Czech Republic - Occupational Exposure Limits</b>	
Local name	1-Methoxy-2-propanol
PEL (OEL TWA)	270 mg/m <sup>3</sup>
	72,09 ppm
NPK-P (OEL C)	550 mg/m <sup>3</sup>
	146,84 ppm
Remark	D - při expozici se významně uplatňuje pronikání faktoru kůží.
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 20/2025 Sb.)

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### 1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2)

#### Denmark - Occupational Exposure Limits

Local name	1-Methoxy-2-propanol (Propylenglycolmonomethylether)
OEL TWA	185 mg/m <sup>3</sup>
	50 ppm
OEL STEL	568 mg/m <sup>3</sup>
	150 ppm
Remark	E (betyder, at stoffet har en EU-grænseværdi); H (betyder, at stoffet kan optages gennem huden)
Regulatory reference	BEK nr 1619 af 19/12/2024

#### Finland - Occupational Exposure Limits

Local name	1-Metoksi-2-propanoli
HTP (OEL TWA)	370 mg/m <sup>3</sup>
	100 ppm
HTP (OEL STEL)	560 mg/m <sup>3</sup>
	150 ppm
Remark	lho
Regulatory reference	HTP-ARVOT 2025 (Sosiaali- ja terveystieteiden ministeriö)

#### France - Occupational Exposure Limits

Local name	1-Méthoxy-2-propanol (Ether méthylique du propylène-glycol)
VLEP 8h (OEL TWA)	188 mg/m <sup>3</sup>
	50 ppm
VLEP CT (OEL STEL)	375 mg/m <sup>3</sup>
	100 ppm
Remark	Valeurs réglementaires contraignantes. Risque de pénétration percutanée
Regulatory reference	Article R4412-149 du Code du travail (réf.: INRS ED 6443, 2022; Outil65; Décret n° 2019-1487; Décret n° 2020-1546; Décret n° 2021-434; Décret n° 2021-1849; Décret n° 2024-307)

#### Germany - Occupational Exposure Limits (TRGS 900)

Local name	1-Methoxy-2-propanol
AGW (OEL TWA)	370 mg/m <sup>3</sup>
	100 ppm
Peak exposure limitation factor	2(l)
Remark	DFG - Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG (MAK-Kommission); EU - Europäische Union (Von der EU wurde ein Luftgrenzwert festgelegt: Abweichungen bei Wert und Spitzenbegrenzung sind möglich); Y - Ein Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet zu werden
Regulatory reference	TRGS900

#### Greece - Occupational Exposure Limits

Local name	Προπυλενογλυκόλ-μεθυλαιθέρας
OEL TWA	360 mg/m <sup>3</sup>

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1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2)	
	100 ppm
OEL STEL	1080 mg/m <sup>3</sup>
	300 ppm
Remark	Η ένδειξη «δέρμα» στις οριακές τιμές επαγγελματικής έκθεσης επισημαίνει το ενδεχόμενο σημαντικής διείσδυσης μέσω του δέρματος.
Regulatory reference	Π.Δ. 90/1999 - Προστασία της υγείας των εργαζομένων που εκτίθενται σε ορισμένους χημικούς παράγοντες κατά τη διάρκεια της εργασίας τους
Hungary - Occupational Exposure Limits	
Local name	1-METOXIPROPÁN-2-OL
AK (OEL TWA)	375 mg/m <sup>3</sup>
	100 ppm
CK (OEL STEL)	568 mg/m <sup>3</sup>
	150 ppm
Remark	b (Bőrön át is felszívódik); EU1 (2000/39/EK irányelvben közölt érték); R+T (Azok az anyagok, amelyek RÖVID és TARTÓS expozíciója is egészségkárosodást okoz)
Regulatory reference	5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
Lithuania - Occupational Exposure Limits	
Local name	1-metoksipropanolis-2 (propilenglikolio monometileris, PGME)
IPRV (OEL TWA)	190 mg/m <sup>3</sup>
	50 ppm
TPRV (OEL STEL)	300 mg/m <sup>3</sup>
	75 ppm
Remark	O (medžiaga į organizmą gali prasiskverbti pro nepažeistą odą)
Regulatory reference	LIETUVOS HIGIENOS NORMA HN 23:2011 (Nr. V-695/A1-272, 2018-06-12)
Luxembourg - Occupational Exposure Limits	
Local name	1-Méthoxypropane-2-ol
OEL TWA	375 mg/m <sup>3</sup>
	100 ppm
OEL STEL	568 mg/m <sup>3</sup>
	150 ppm
Remark	Peau
Regulatory reference	Mémorial A N° 226 de 2021 concernant la protection de la sécurité et de la santé des salariés contre les risques liés à des agents chimiques sur le lieu de travail
Netherlands - Occupational Exposure Limits	
Local name	1-Methoxy-2-propanol
TGG-8u (OEL TWA)	375 mg/m <sup>3</sup>
	100 ppm
TGG-15min (OEL STEL)	563 mg/m <sup>3</sup>
	150 ppm

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1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2)	
Remark	H (Huidopname) Stoffen die relatief gemakkelijk door de huid kunnen worden opgenomen, hetgeen een substantiële bijdrage kan betekenen aan de totale inwendige blootstelling, hebben in de lijst een H-aanduiding. Bij deze stoffen moeten naast maatregelen tegen inademing ook adequate maatregelen ter voorkoming van huidcontact worden genomen.
Regulatory reference	Arbeidsomstandighedenregeling 2024
<b>Poland - Occupational Exposure Limits</b>	
Local name	1-Metoksypropan-2-ol
NDS (OEL TWA)	180 mg/m <sup>3</sup>
NDSch (OEL STEL)	360 mg/m <sup>3</sup>
Remark	Skóra (Oznakowanie substancji notacją „skóra” oznacza, że wchłanianie substancji przez skórę może być tak samo istotne jak przy narażeniu drogą oddechową).
Regulatory reference	Dz. U. 2024 poz. 1017 wraz z późn. zm.
<b>Portugal - Occupational Exposure Limits</b>	
Local name	1-Metoxi-2-propanol (PGME)
OEL TWA	50 ppm
OEL STEL	100 ppm
Remark	A4 (Agente não classificável como carcinogénico no Homem)
Regulatory reference	Norma Portuguesa NP 1796:2014
<b>Slovakia - Occupational Exposure Limits</b>	
Local name	1-Metoxypropán-2-ol (propylénglykolmonometyléter)
NPHV (OEL TWA)	375 mg/m <sup>3</sup> 100 ppm
NPHV (OEL STEL)	568 mg/m <sup>3</sup> 150 ppm
Remark	K – znamená, že faktor môže byť ľahko absorbovaný kožou
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z. (122/2024 Z. z.)
<b>Slovenia - Occupational Exposure Limits</b>	
Local name	1-metoksi-2-propanol (propilenglikolmonometil eter)
OEL TWA	375 mg/m <sup>3</sup> 100 ppm
OEL STEL	562,5 mg/m <sup>3</sup> 150 ppm
Remark	K (Lastnost lažjega prehajanja snovi v organizem skozi kožo), Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in bat vrednosti), BAT (Biološka mejna vrednost), EU
Regulatory reference	Uradni list RS, št. 26/2025 z dne 18.4.2025 - Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu
<b>Spain - Occupational Exposure Limits</b>	
Local name	1-Metoxipropan-2-ol (Éter 1-metílico de propilenglicol)
VLA-ED (OEL TWA)	375 mg/m <sup>3</sup> 100 ppm

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1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2)	
VLA-EC (OEL STEL)	568 mg/m <sup>3</sup> 150 ppm
Remark	Vía dérmica (Indica que, en las exposiciones a esta sustancia, la aportación por la vía cutánea puede resultar significativa para el contenido corporal total si no se adoptan medidas para prevenir la absorción. En estas situaciones, es aconsejable la utilización del control biológico para poder cuantificar la cantidad global absorbida del contaminante), VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo).
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2025. INSHT
Sweden - Occupational Exposure Limits	
Local name	1-Metoxi-2-propanol
NGV (OEL TWA)	190 mg/m <sup>3</sup> 50 ppm
KGV (OEL STEL)	568 mg/m <sup>3</sup> 150 ppm
Remark	H (Ämnet tas lätt upp genom huden. Gränsvärdet bedöms ge tillräckligt skydd om huden är skyddad); 23 (Ämnet har ett indikativt EU-gränsvärde)
Regulatory reference	Arbetsmiljöverkets föreskrifter och allmänna råd (AFS 2023:14) om gränsvärden för luftvägsexponering i arbetsmiljön
United Kingdom - Occupational Exposure Limits	
Local name	1-Methoxypropan-2-ol
WEL TWA (OEL TWA)	375 mg/m <sup>3</sup> 100 ppm
WEL STEL (OEL STEL)	560 mg/m <sup>3</sup> 150 ppm
Remark	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
Norway - Occupational Exposure Limits	
Local name	1-metoksy-2-propanol (Propylenglykolmonometyleter)
Grenseverdi (OEL TWA)	180 mg/m <sup>3</sup> 50 ppm
Remark	H: Kjemikalier som kan tas opp gjennom huden; E: EU har en veiledende grenseverdi og/eller anmerkning for stoffet.
Regulatory reference	FOR-2024-04-05-581
Switzerland - Occupational Exposure Limits	
Local name	1-Methoxypropanol-2 (PGME)
MAK (OEL TWA)	360 mg/m <sup>3</sup> 360 mg/m <sup>3</sup> 360 mg/m <sup>3</sup> 100 ppm 100 ppm 100 ppm

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1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2)	
KZGW (OEL STEL)	720 mg/m <sup>3</sup> 720 mg/m <sup>3</sup> 720 mg/m <sup>3</sup> 200 ppm 200 ppm 200 ppm
Remark	B SSc - ZNS, Auge <sup>KT HU</sup>
Ethers (122-99-6)	
Austria - Occupational Exposure Limits	
Local name	2-Phenoxyethanol
MAK (OEL TWA)	110 mg/m <sup>3</sup> 20 ppm
OEL C	110 mg/m <sup>3</sup> 20 ppm
Regulatory reference	BGBl. II Nr. 330/2024
Finland - Occupational Exposure Limits	
Local name	2-Fenoksietanoli
HTP (OEL TWA)	110 mg/m <sup>3</sup> 20 ppm
HTP (OEL STEL)	290 mg/m <sup>3</sup> 50 ppm
Remark	lho
Regulatory reference	HTP-ARVOT 2025 (Sosiaali- ja terveystieteiden ministeriö)
Germany - Occupational Exposure Limits (TRGS 900)	
Local name	2-Phenoxyethanol
AGW (OEL TWA)	5,7 mg/m <sup>3</sup> 1 ppm
AGW (OEL C)	220 mg/m <sup>3</sup>
Peak exposure limitation factor	1(l)
Remark	DFG - Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG (MAK-Kommission); Y - Ein Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet zu werden; 11 - Summe aus Dampf und Aerosolen
Regulatory reference	TRGS900
Poland - Occupational Exposure Limits	
Local name	2-Fenoksyetanol
NDS (OEL TWA)	230 mg/m <sup>3</sup>
Regulatory reference	Dz. U. 2024 poz. 1017 wraz z późn. zm.
Slovenia - Occupational Exposure Limits	
Local name	2-fenoksietanol
OEL TWA	5,7 mg/m <sup>3</sup>

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<b>Ethers (122-99-6)</b>	
	1 ppm
OEL STEL	110 mg/m <sup>3</sup>
	20 ppm
Remark	Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in bat vrednosti)
Regulatory reference	Uradni list RS, št. 26/2025 z dne 18.4.2025 - Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu
<b>(R)-p-mentha-1,8-diene (D-Limonene) (5989-27-5)</b>	
<b>Finland - Occupational Exposure Limits</b>	
Local name	D-Limoneeni
HTP (OEL TWA)	140 mg/m <sup>3</sup>
	25 ppm
HTP (OEL STEL)	280 mg/m <sup>3</sup>
	50 ppm
Regulatory reference	HTP-ARVOT 2025 (Sosiaali- ja terveysministeriö)
<b>Germany - Occupational Exposure Limits (TRGS 900)</b>	
Local name	(R)-p-Mentha-1,8-dien (D-Limonen)
AGW (OEL TWA)	28 mg/m <sup>3</sup>
	5 ppm
Peak exposure limitation factor	4(II)
Remark	DFG - Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG (MAK-Kommission); H - hautresorptiv; Sh - Hautsensibilisierender Stoff; Y - Ein Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet zu werden
Regulatory reference	TRGS900
<b>Spain - Occupational Exposure Limits</b>	
VLA-ED (OEL TWA)	168 mg/m <sup>3</sup> d-Limoneno
	30 ppm d-Limoneno
Remark	Entrada en vigor en 2018. Sen (Sensibilizante. Véase Apartado 6), Vía dérmica (Indica que, en las exposiciones a esta sustancia, la aportación por la vía cutánea puede resultar significativa para el contenido corporal total si no se adoptan medidas para prevenir la absorción. En estas situaciones, es aconsejable la utilización del control biológico para poder cuantificar la cantidad global absorbida del contaminante. Para más información véase el Apartado 5 de este documento).
<b>Citral (5392-40-5)</b>	
<b>Poland - Occupational Exposure Limits</b>	
Local name	3,7-Dimetylookta-2,6-dienal (cytral)
NDS (OEL TWA)	27 mg/m <sup>3</sup>
NDSch (OEL STEL)	54 mg/m <sup>3</sup>
Regulatory reference	Dz.U. 2014 poz. 817
<b>Spain - Occupational Exposure Limits</b>	
Local name	Citral

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<b>Citral (5392-40-5)</b>	
VLA-ED (OEL TWA)	5 ppm
Remark	Vía dérmica (Indica que, en las exposiciones a esta sustancia, la aportación por la vía cutánea puede resultar significativa para el contenido corporal total si no se adoptan medidas para prevenir la absorción. En estas situaciones, es aconsejable la utilización del control biológico para poder cuantificar la cantidad global absorbida del contaminante), Sen (Sensibilizante), FIV (Fracción inhalable y vapor. La notación FIV señala a aquellos agentes químicos que se pueden presentar en el ambiente de trabajo, tanto en forma de materia particulada como vapor, por lo que las dos fases pueden coexistir, contribuyendo ambas a la exposición. Esta situación se puede dar, principalmente, en los siguientes casos: • Cuando el agente en cuestión tiene un valor "intermedio" de presión de vapor (en estos casos se tiene en cuenta la relación entre su concentración en el aire saturado de vapor y el valor del VLA-ED® y la nota se asigna, generalmente, cuando el cociente entre ambas cantidades se encuentra entre 0.1 y 10). • Por razón de la forma de uso del agente químico (por ejemplo, pulverización). • En los procesos que conlleven cambios importantes de temperatura que puedan afectar al estado físico del agente químico. • En los procesos en los que una fracción significativa del vapor puede disolverse o adsorberse en las partículas de otra sustancia, a semejanza de lo que ocurre con los agentes solubles en agua en ambientes con humedad elevada).
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2017. INSHT
<b>Sodium hydroxide (1310-73-2)</b>	
<b>Austria - Occupational Exposure Limits</b>	
Local name	Natriumhydroxid
MAK (OEL TWA)	2 mg/m <sup>3</sup>
MAK (OEL STEL)	4 mg/m <sup>3</sup>
Regulatory reference	BGBl. II Nr. 186/2015
<b>Belgium - Occupational Exposure Limits</b>	
Local name	Sodium (hydroxyde de) # Natriumhydroxide
OEL TWA	2 mg/m <sup>3</sup>
Remark	M: la mention "M" indique que lors d'une exposition supérieure à la valeur limite, des irritations apparaissent ou un danger d'intoxication aiguë existe. Le procédé de travail doit être conçu de telle façon que l'exposition ne dépasse jamais la valeur limite. Lors des mesurages, la période d'échantillonnage doit être aussi courte que possible afin de pouvoir effectuer des mesurages fiables. Le résultat des mesurages est calculé en fonction de la période d'échantillonnage. # M: de vermelding "M" duidt aan dat bij de blootstelling boven de grenswaarde irritatie optreedt of er gevaar bestaat voor acute vergiftiging. Het werkprocédé moet zo zijn ontworpen dat de blootstelling de grenswaarde nooit overschrijdt. Bij een controle geldt dat de bemonsterde periode zo kort mogelijk moet zijn om een betrouwbare meting te kunnen verrichten. het meetresultaat wordt dan gerelateerd aan de beschouwde periode.
Regulatory reference	Koninklijk besluit/Arrêté royal 11/03/2002
<b>Bulgaria - Occupational Exposure Limits</b>	
Local name	Натриева основа
OEL TWA	2 mg/m <sup>3</sup> алкални аерозоли
Regulatory reference	Наредба № 13 от 30.12.2003 г. за защита на работещите от рискове, свързани с експозиция на химични агенти при работа
<b>Croatia - Occupational Exposure Limits</b>	
Local name	Natrijev hidroksid; (kaustična soda)
KGVI (OEL STEL)	2 mg/m <sup>3</sup>

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<b>Sodium hydroxide (1310-73-2)</b>	
Remark	C (nagrizajuće)
Regulatory reference	Pravilnik o izmjenama i dopunama Pravilnika o graničnim vrijednostima izloženosti opasnim tvarima pri radu i o biološkim graničnim vrijednostima (NN, br. 75/13)
<b>Czech Republic - Occupational Exposure Limits</b>	
Local name	Hydroxid sodný
PEL (OEL TWA)	1 mg/m <sup>3</sup>
NPK-P (OEL C)	2 mg/m <sup>3</sup>
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (zapracovány změny č. 93/2012 Sb., 9/2013 Sb.)
<b>Denmark - Occupational Exposure Limits</b>	
Local name	Natriumhydroxid
OEL TWA	2 mg/m <sup>3</sup>
Regulatory reference	BEK nr 986 af 11/10/2012
<b>Estonia - Occupational Exposure Limits</b>	
Local name	Naatriumhüdoksiid
OEL TWA	1 mg/m <sup>3</sup>
OEL STEL	2 mg/m <sup>3</sup>
Regulatory reference	Vabariigi Valitsuse 18. septembri 2001. a määruse nr 293
<b>Finland - Occupational Exposure Limits</b>	
Local name	Natriumhydroksidi
HTP (OEL STEL)	2 mg/m <sup>3</sup> kattoarvo
Regulatory reference	HTP-ARVOT 2016 (Sosiaali- ja terveystieteiden ministeriö)
<b>France - Occupational Exposure Limits</b>	
Local name	Sodium (hydroxyde de)
VLEP 8h (OEL TWA)	2 mg/m <sup>3</sup>
Remark	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
<b>Greece - Occupational Exposure Limits</b>	
OEL TWA	2 mg/m <sup>3</sup>
OEL STEL	2 mg/m <sup>3</sup>
<b>Hungary - Occupational Exposure Limits</b>	
Local name	NÁTRIUM-HIDROXID
AK (OEL TWA)	2 mg/m <sup>3</sup>
CK (OEL STEL)	2 mg/m <sup>3</sup>
<b>Ireland - Occupational Exposure Limits</b>	
Local name	Sodium hydroxide
OEL STEL	2 mg/m <sup>3</sup>
Regulatory reference	Code of Practice for the Chemical Agents Regulations 2016
<b>Latvia - Occupational Exposure Limits</b>	
Local name	Nātrijahidroksiīds (nātrijasārns, kaustiskāsoda)

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<b>Sodium hydroxide (1310-73-2)</b>	
OEL TWA	0,5 mg/m <sup>3</sup>
Regulatory reference	Ministru kabineta 2007.gada 15.maija noteikumiem Nr.325
<b>Lithuania - Occupational Exposure Limits</b>	
Local name	Natrio hidroksidas
NRV (OEL C)	2 mg/m <sup>3</sup>
Regulatory reference	LIETUVOS HIGIENOS NORMA HN 23:2011
<b>Poland - Occupational Exposure Limits</b>	
Local name	Wodorotlenek sodu
NDS (OEL TWA)	0,5 mg/m <sup>3</sup>
NDSch (OEL STEL)	1 mg/m <sup>3</sup>
Regulatory reference	Dz.U. 2014 poz. 817
<b>Portugal - Occupational Exposure Limits</b>	
Local name	Hidróxido de sódio
OEL C	2 mg/m <sup>3</sup> 2 ppm
Regulatory reference	Norma Portuguesa NP 1796:2014
<b>Romania - Occupational Exposure Limits</b>	
Local name	Hidroxizi alcalini exprimati în hidroxid de sodium
OEL TWA	1 mg/m <sup>3</sup>
OEL STEL	3 mg/m <sup>3</sup>
Regulatory reference	Legea 319/2006 privind Securitatea și sănătatea în muncă și HG nr. 1/2012 de modificare și completare a HG 1218/2006
<b>Slovakia - Occupational Exposure Limits</b>	
Local name	Hydroxid sodný
NPHV (OEL TWA)	2 mg/m <sup>3</sup>
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z.
<b>Slovenia - Occupational Exposure Limits</b>	
Local name	natrijev hidroksid
OEL TWA	2 mg/m <sup>3</sup>
OEL STEL	2 mg/m <sup>3</sup>
KTV	1
Regulatory reference	Uradni list RS, št. 102/2010 z dne 17.12.2010
<b>Spain - Occupational Exposure Limits</b>	
Local name	Hidróxido de sodio
VLA-EC (OEL STEL)	2 mg/m <sup>3</sup>
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2017. INSHT
<b>Sweden - Occupational Exposure Limits</b>	
Local name	Natriumhydroxid
NGV (OEL TWA)	1 mg/m <sup>3</sup> inhalerbart damm

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<b>Sodium hydroxide (1310-73-2)</b>	
KGV (OEL STEL)	2 mg/m <sup>3</sup> inhalerbart damm
Regulatory reference	Hygieniska gränsvärden (AFS 2015:7)
<b>United Kingdom - Occupational Exposure Limits</b>	
Local name	Sodium hydroxide
WEL STEL (OEL STEL)	2 mg/m <sup>3</sup>
Regulatory reference	EH40. HSE
<b>Iceland - Occupational Exposure Limits</b>	
Local name	Natriumhýdroxíð (vítissóti)
OEL STEL	2 mg/m <sup>3</sup>
Regulatory reference	Reglugerð um mengunarmörk og aðgerðir til að draga úr mengun á vinnustöðum (Nr. 390/2009)
<b>Norway - Occupational Exposure Limits</b>	
Local name	Natriumhydroksid
Greenseverdi (OEL TWA)	2 mg/m <sup>3</sup>
Takverdi (OEL C)	2 mg/m <sup>3</sup>
Regulatory reference	Arbeidstilsynet. Forskrift, best.nr. 704
<b>Switzerland - Occupational Exposure Limits</b>	
Local name	Aetznatron (s. Natriumhydroxid)
MAK (OEL TWA)	2 mg/m <sup>3</sup> 2 mg/m <sup>3</sup>
KZGW (OEL STEL)	2 mg/m <sup>3</sup> 2 mg/m <sup>3</sup>
Remark	e(mg/m <sup>3</sup> ) - SS <sub>c</sub> - Haut , OAW <sup>KT</sup> & Auge <sup>KT</sup> - NIOSH, OSHA
<b>2,6-di-tert-butyl-p-cresol (128-37-0)</b>	
<b>Austria - Occupational Exposure Limits</b>	
Local name	2,6-Di-tert-butyl-p-kresol
MAK (OEL TWA)	10 mg/m <sup>3</sup>
Regulatory reference	BGBl. II Nr. 238/2018
<b>Belgium - Occupational Exposure Limits</b>	
Local name	2,6-Di-tert-butyl-p-crésol (vapeur et aérosol) # Di-tert-butyl-4-methylfenol (damp en aérosol)
OEL TWA	2 mg/m <sup>3</sup>
Regulatory reference	Koninklijk besluit/Arrêté royal 16/11/2023
<b>Bulgaria - Occupational Exposure Limits</b>	
Local name	Дибутилпаракрезол
OEL TWA	10 mg/m <sup>3</sup>
OEL STEL	50 mg/m <sup>3</sup>
Regulatory reference	Наредба № 13 от 30.12.2003 г. за защита на работещите от рискове, свързани с експозиция на химични агенти при работа (изм. и доп. ДВ. бр. 28 от 2024 г., в сила от 05.04.2024 г.)

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<b>2,6-di-tert-butyl-p-cresol (128-37-0)</b>	
<b>Croatia - Occupational Exposure Limits</b>	
Local name	2,6-Di-tert-butil-p-krezol
GVI (OEL TWA)	10 mg/m <sup>3</sup>
Regulatory reference	Pravilnik o zaštiti radnika od izloženosti opasnim kemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 148/2023)
<b>Denmark - Occupational Exposure Limits</b>	
Local name	2,6-Di-tert-butyl-p-cresol (Butylhydroxytoluen)
OEL TWA	10 mg/m <sup>3</sup>
Regulatory reference	BEK nr 1619 af 19/12/2024
<b>Finland - Occupational Exposure Limits</b>	
Local name	2,6-Di-tert-butyyl-i-p-kresoli
HTP (OEL TWA)	10 mg/m <sup>3</sup>
HTP (OEL STEL)	20 mg/m <sup>3</sup>
Regulatory reference	HTP-ARVOT 2025 (Sosiaali- ja terveysministeriö)
<b>France - Occupational Exposure Limits</b>	
Local name	2,6-Di-tert-butyl-p-crésol
VLEP 8h (OEL TWA)	10 mg/m <sup>3</sup>
Remark	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 6443, 2022; Outil65)
<b>Germany - Occupational Exposure Limits (TRGS 900)</b>	
Local name	2,6-Di-tert-butyl-p-kresol
AGW (OEL TWA)	10 mg/m <sup>3</sup> (E)
Peak exposure limitation factor	4(II)
Remark	DFG - Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG (MAK-Kommission); Y - Ein Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet zu werden; 11 - Summe aus Dampf und Aerosolen
Regulatory reference	TRGS900
<b>Greece - Occupational Exposure Limits</b>	
Local name	Βουτυλο-υπροξυ-τολουόλιο
OEL TWA	10 mg/m <sup>3</sup>
Regulatory reference	Π.Δ. 90/1999 - Προστασία της υγείας των εργαζομένων που εκτίθενται σε ορισμένους χημικούς παράγοντες κατά τη διάρκεια της εργασίας τους
<b>Portugal - Occupational Exposure Limits</b>	
Local name	Hidroxitoluenobutilado (2,6-Di-terc-butil-p-cresol) (BHT)
OEL TWA	2 mg/m <sup>3</sup> FIV (Fração inalável e vapor)
Remark	A4 (Agente não classificável como carcinogénico no Homem)
Regulatory reference	Norma Portuguesa NP 1796:2014
<b>Slovenia - Occupational Exposure Limits</b>	
Local name	2,6-di-terc-butil-p-krezol

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<b>2,6-di-tert-butyl-p-cresol (128-37-0)</b>	
OEL TWA	10 mg/m <sup>3</sup>
OEL STEL	40 mg/m <sup>3</sup>
Remark	Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in bat vrednosti)
Regulatory reference	Uradni list RS, št. 26/2025 z dne 18.4.2025 - Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu
<b>Spain - Occupational Exposure Limits</b>	
Local name	2,6-Diterc-butil-p-cresol
VLA-ED (OEL TWA)	10 mg/m <sup>3</sup>
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2025. INSHT
<b>United Kingdom - Occupational Exposure Limits</b>	
Local name	2,6-Di-tert-butyl-p-cresol
WEL TWA (OEL TWA)	10 mg/m <sup>3</sup>
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
<b>Switzerland - Occupational Exposure Limits</b>	
Local name	Butylhydroxytoluol (BHT)
MAK (OEL TWA)	10 mg/m <sup>3</sup> 10 mg/m <sup>3</sup>
KZGW (OEL STEL)	40 mg/m <sup>3</sup> 40 mg/m <sup>3</sup>
Remark	e(mg/m <sup>3</sup> ) - C1 <sub>B</sub> * SS <sub>C</sub> - Leber - *Kein erhöhtes Krebsrisiko bei Einhalten des MAK-Werts <sup>s</sup> . 1.3.2.3
<b>(99-87-6)</b>	
<b>Denmark - Occupational Exposure Limits</b>	
Local name	1-Methyl-4-isopropylbenzen (p-Cymen)
OEL TWA	135 mg/m <sup>3</sup> 25 ppm
Regulatory reference	BEK nr 986 af 11/10/2012
<b>Lithuania - Occupational Exposure Limits</b>	
Local name	p-cimenas (p-metilizopropilbenzenas)
IPRV (OEL TWA)	140 mg/m <sup>3</sup> 25 ppm
TPRV (OEL STEL)	190 mg/m <sup>3</sup> 35 ppm
Regulatory reference	LIETUVOS HIGIENOS NORMA HN 23:2011
<b>Sweden - Occupational Exposure Limits</b>	
Local name	4-Metylisopropylbensen (Kumen)
NGV (OEL TWA)	140 mg/m <sup>3</sup> 25 ppm
KGV (OEL STEL)	190 mg/m <sup>3</sup>

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(99-87-6)	
	35 ppm
Regulatory reference	Hygieniska gränsvärden (AFS 2015:7)
Terpenes (80-56-8)	
Belgium - Occupational Exposure Limits	
Local name	Essence de térébenthine et monoterpènes sélectionnés # Terpentijn en geselecteerde monoterenen
OEL TWA	20 ppm
Regulatory reference	Koninklijk besluit/Arrêté royal 16/11/2023
Lithuania - Occupational Exposure Limits	
Local name	alfa-pinenas (terpenai)
IPRV (OEL TWA)	150 mg/m <sup>3</sup>
	25 ppm
TPRV (OEL STEL)	300 mg/m <sup>3</sup>
	50 ppm
Remark	Spygliuočių sakai jautrina odą. Atskirų terpenų, išskyrus 3-kareną, jautrinantis poveikis nėra ištirtas.
Regulatory reference	LIETUVOS HIGIENOS NORMA HN 23:2011 (Nr. V-695/A1-272, 2018-06-12)
Portugal - Occupational Exposure Limits	
Local name	Terebentina, e monoterenos específicos
OEL TWA	20 ppm
Remark	SC (Agente com potencial para produzir sensibilização pela via cutânea); A4 (Agente não classificável como carcinogénico no Homem)
Regulatory reference	Norma Portuguesa NP 1796:2014
Norway - Occupational Exposure Limits	
Local name	α-pinen
Grenseverdi (OEL TWA)	140 mg/m <sup>3</sup>
	25 ppm
Remark	H: Kjemikalier som kan tas opp gjennom huden.
Regulatory reference	FOR-2024-04-05-581
Benzyl alcohol (100-51-6)	
Bulgaria - Occupational Exposure Limits	
Local name	Бензилалкохол
OEL TWA	5 mg/m <sup>3</sup>
Regulatory reference	Наредба № 13 от 30.12.2003 г. за защита на работещите от рискове, свързани с експозиция на химични агенти при работа
Czech Republic - Occupational Exposure Limits	
Local name	Benzylalkohol
PEL (OEL TWA)	40 mg/m <sup>3</sup>
	9 ppm

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<b>Benzyl alcohol (100-51-6)</b>	
NPK-P (OEL C)	80 mg/m <sup>3</sup>
	18,1 ppm
Regulatory reference	Nariadení vlády č. 361/2007 Sb. (zapracovány zmeny č. 93/2012 Sb., 9/2013 Sb.)
<b>Finland - Occupational Exposure Limits</b>	
Local name	Bentsyylialkoholi
HTP (OEL TWA)	45 mg/m <sup>3</sup>
	10 ppm
Regulatory reference	HTP-ARVOT 2016 (Sosiaali- ja terveystieteiden ministeriö)
<b>Latvia - Occupational Exposure Limits</b>	
Local name	Benzilspirts (fenilmetanols, fenilkarbinols)
OEL TWA	5 mg/m <sup>3</sup>
Regulatory reference	Ministru kabineta 2007.gada 15.maija noteikumiem Nr.325
<b>Lithuania - Occupational Exposure Limits</b>	
Local name	Benzilo alkoholis
IPRV (OEL TWA)	5 mg/m <sup>3</sup>
Regulatory reference	LIETUVOS HIGIENOS NORMA HN 23:2011
<b>Poland - Occupational Exposure Limits</b>	
Local name	Fenylometanol
NDS (OEL TWA)	240 mg/m <sup>3</sup>
Regulatory reference	Dz.U. 2014 poz. 817
<b>2(10)-Pinene [Bicyclo(3.1.1)heptane, 6,6-dimethyl-2-methylene-] (127-91-3)</b>	
<b>Belgium - Occupational Exposure Limits</b>	
Local name	Essence de térébenthine et monoterpènes sélectionnés # Terpentijn en geselecteerde monoterpene
OEL TWA	20 ppm
Regulatory reference	Koninklijk besluit/Arrêté royal 11/03/2002
<b>Estonia - Occupational Exposure Limits</b>	
Local name	β-pineen (vt terpeenid)
OEL TWA	150 mg/m <sup>3</sup>
	25 ppm
OEL STEL	300 mg/m <sup>3</sup>
	50 ppm
Regulatory reference	Vabariigi Valitsuse 18. septembri 2001. a määruse nr 293
<b>Lithuania - Occupational Exposure Limits</b>	
Local name	beta-pinenas (terpenai)
IPRV (OEL TWA)	150 mg/m <sup>3</sup>
	25 ppm
TPRV (OEL STEL)	300 mg/m <sup>3</sup>
	50 ppm

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<b>2(10)-Pinene [Bicyclo(3.1.1)heptane, 6,6-dimethyl-2-methylene-] (127-91-3)</b>	
Regulatory reference	LIETUVOS HIGIENOS NORMA HN 23:2011
<b>Portugal - Occupational Exposure Limits</b>	
Local name	Terebentina, e monoterpenos específicos
OEL TWA	20 ppm
Regulatory reference	Norma Portuguesa NP 1796:2014
<b>Spain - Occupational Exposure Limits</b>	
Local name	β-pineno
VLA-ED (OEL TWA)	113 mg/m <sup>3</sup> 20 ppm
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2017. INSHT
<b>Sweden - Occupational Exposure Limits</b>	
Local name	β-Pinen (jfr Terpener)
NGV (OEL TWA)	150 mg/m <sup>3</sup> 25 ppm
KGV (OEL STEL)	300 mg/m <sup>3</sup> 50 ppm
Regulatory reference	Hygieniska gränsvärden (AFS 2015:7)
<b>Norway - Occupational Exposure Limits</b>	
Local name	β-pinen
Grenseverdi (OEL TWA)	140 mg/m <sup>3</sup> 25 ppm
Regulatory reference	Arbeidstilsynet. Forskrift, best.nr. 704

### 8.1.2. Recommended monitoring procedures

No additional information available

### 8.1.3. Air contaminants formed

No additional information available

### 8.1.4. DNEL and PNEC

<b>James Basic Cleaner</b>	
<b>DNEL/DMEL (additional information)</b>	
See http	//www.dguv.de/ifa/de/gestis/limit_values/index.jsp: Information on ingredients.
<b>3-butoxypropan-2-ol; propylene glycol monobutyl ether (5131-66-8)</b>	
<b>DNEL/DMEL (Workers)</b>	
Long-term - systemic effects, dermal	44 – 52 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	147 – 270,5 mg/m <sup>3</sup>
<b>DNEL/DMEL (General population)</b>	
Long-term - systemic effects, oral	8,75 – 12,5 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	33,8 – 43 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	16 – 22 mg/kg bodyweight/day

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<b>3-butoxypropan-2-ol; propylene glycol monobutyl ether (5131-66-8)</b>	
<b>PNEC (Water)</b>	
PNEC aqua (freshwater)	0,525 mg/l
PNEC aqua (marine water)	0,0525 mg/l
PNEC aqua (intermittent, freshwater)	5,25 mg/l
<b>PNEC (Sediment)</b>	
PNEC sediment (freshwater)	2,36 mg/kg dwt
PNEC sediment (marine water)	0,236 mg/kg dwt
<b>PNEC (Soil)</b>	
PNEC soil	0,16 mg/kg dwt
<b>PNEC (STP)</b>	
PNEC sewage treatment plant	10 mg/l
<b>1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2)</b>	
<b>DNEL/DMEL (Workers)</b>	
Acute - local effects, inhalation	553,5 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	50,6 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	369 mg/m <sup>3</sup>
<b>DNEL/DMEL (General population)</b>	
Long-term - systemic effects, oral	3,3 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	43,9 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	18,1 mg/kg bodyweight/day
<b>PNEC (Water)</b>	
PNEC aqua (freshwater)	10 mg/l
PNEC aqua (marine water)	1 mg/l
<b>PNEC (Sediment)</b>	
PNEC sediment (freshwater)	41,6 – 52,3 mg/kg dwt
PNEC sediment (marine water)	4,17 – 5,2 mg/kg dwt
<b>PNEC (Soil)</b>	
PNEC soil	2,47 – 4,59 mg/kg dwt
<b>PNEC (STP)</b>	
PNEC sewage treatment plant	100 mg/l
<b>Ethers (122-99-6)</b>	
<b>DNEL/DMEL (Workers)</b>	
Long-term - systemic effects, dermal	34,72 mg/kg bodyweight/day
Long-term - local effects, dermal	20,83
Long-term - systemic effects, inhalation	8,07 mg/m <sup>3</sup>
Long-term - local effects, inhalation	8,07 mg/m <sup>3</sup>
<b>DNEL/DMEL (General population)</b>	
Acute - systemic effects, oral	17,43 mg/kg bodyweight

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<b>Ethers (122-99-6)</b>	
Long-term - systemic effects, oral	17,43 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	2,41 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	20,83 mg/kg bodyweight/day
Long-term - local effects, inhalation	2,41 mg/m <sup>3</sup>
<b>PNEC (Water)</b>	
PNEC aqua (freshwater)	0,943 mg/l
PNEC aqua (marine water)	0,094 mg/l
PNEC aqua (intermittent, freshwater)	3,44 mg/l
<b>PNEC (Sediment)</b>	
PNEC sediment (freshwater)	7,23 mg/kg dwt
PNEC sediment (marine water)	0,723 mg/kg dwt
<b>PNEC (Soil)</b>	
PNEC soil	1,26 mg/kg dwt
<b>PNEC (STP)</b>	
PNEC sewage treatment plant	24,8 mg/l
<b>Alkylsulphates (126-92-1)</b>	
<b>DNEL/DMEL (Workers)</b>	
Long-term - systemic effects, dermal	4060 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	285 mg/m <sup>3</sup>
<b>DNEL/DMEL (General population)</b>	
Long-term - systemic effects, oral	24 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	85 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	2440 mg/kg bodyweight/day
<b>PNEC (Water)</b>	
PNEC aqua (freshwater)	0,1357 mg/l
PNEC aqua (marine water)	0,01357 mg/l
<b>PNEC (Sediment)</b>	
PNEC sediment (marine water)	0,15 mg/kg dwt
<b>PNEC (Soil)</b>	
PNEC soil	0,22 mg/kg dwt
<b>PNEC (STP)</b>	
PNEC sewage treatment plant	1,35 mg/l
<b>Sodium cumenesulfonate (15763-76-5)</b>	
<b>DNEL/DMEL (Workers)</b>	
Long-term - systemic effects, dermal	7,6 – 191 mg/kg bodyweight/day
Long-term - local effects, dermal	0,096 mg/cm <sup>2</sup>
Long-term - systemic effects, inhalation	26,9 – 53,6 mg/m <sup>3</sup>

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<b>Sodium cumenesulfonate (15763-76-5)</b>	
<b>DNEL/DMEL (General population)</b>	
Long-term - systemic effects, oral	3,8 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	6,6 – 13,2 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	3,8 – 68,1 mg/kg bodyweight/day
Long-term - local effects, dermal	0,048 mg/cm <sup>2</sup>
<b>PNEC (Water)</b>	
PNEC aqua (freshwater)	0,1 – 0,23 mg/l
PNEC aqua (marine water)	0,01 – 0,023 mg/l
PNEC aqua (intermittent, freshwater)	1 – 2,3 mg/l
<b>PNEC (Sediment)</b>	
PNEC sediment (freshwater)	0,372 – 0,862 mg/kg dwt
PNEC sediment (marine water)	0,0372 – 0,0862 mg/kg dwt
<b>PNEC (Soil)</b>	
PNEC soil	0,016 – 0,037 mg/kg dwt
<b>PNEC (STP)</b>	
PNEC sewage treatment plant	100 mg/l

### 8.1.5. Control banding

No additional information available

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

No additional information available

### 8.2.2. Personal protection equipment

#### Personal protective equipment:

Avoid contact with skin, eyes and clothing. Avoid all unnecessary exposure. Eye protection. eye protection.

#### Personal protective equipment symbol(s):



#### 8.2.2.1. Eye and face protection

##### Eye protection:

Wear eye/face protection. Chemical goggles or safety glasses. Standard. ISO 16321-1

#### 8.2.2.2. Skin protection

##### Skin and body protection:

If repeated skin contact or contamination of clothing is likely, protective clothing should be worn

##### Hand protection:

None under normal use. In case of repeated or prolonged exposure : Chemical resistant gloves (according to European standard NF ISO 374-1 or equivalent). By prolonged exposure : Short term exposure. If there is a risk of liquid being splashed : Time of penetration is to be checked with the glove producer. protective gloves

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Hand protection					
Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Reusable gloves	Nitrile rubber (NBR), Neoprene rubber (HNBR)	6 (> 480 minutes)	>0.35 mm (NBR); >0.7 mm (HNBR)		EN 374-3
Disposable gloves / Reusable gloves	Nitrile rubber (NBR), Neoprene rubber (HNBR)	2 (> 30 minutes)	> 0.1 mm		EN 374-3

### 8.2.2.3. Respiratory protection

#### Respiratory protection:

No special protection required where adequate ventilation is maintained

### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

#### Other information:

Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

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

Physical state	: Liquid
Colour	: light yellow.
Odour	: characteristic.
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: Not available
Boiling point	: > 100 °C
Flammability	: Not available
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: > 60 °C Not applicable (aqueous non combustible product)
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: 10 – 11 (20°C)
pH solution concentration	: 100 %
Viscosity, kinematic	: < 9,699 mm <sup>2</sup> /s
Viscosity, dynamic	: < 10 mPa·s (20°C)
Solubility	: Material highly soluble in water. completely soluble.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: 1,031 g/cm <sup>3</sup> (20°C)
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

No additional information available

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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

The product is stable at normal handling and storage conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

#### 10.5. Incompatible materials

Not established.

#### 10.6. Hazardous decomposition products

Thermal decomposition generates : fume. Carbon monoxide. Carbon dioxide.

### SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified  
Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Not classified

#### Water (7732-18-5)

LD50 oral	> 90000 mg/kg bodyweight
LD50 dermal	> 90000 mg/kg bodyweight

#### 3-butoxypropan-2-ol; propylene glycol monobutyl ether (5131-66-8)

LD50 oral rat	3300 mg/kg
LD50 oral	> 2000 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 Inhalation - Rat	> 3,5 mg/l/4h

#### 1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2)

LD50 oral rat	4016 – 5000 mg/kg
LD50 oral	3739 mg/kg bodyweight
LD50 dermal rabbit	13500 mg/kg
LD50 dermal	> 2000 mg/kg bodyweight
LC50 Inhalation - Rat	6 mg/l/4h
LC50 Inhalation - Rat (Dust/Mist)	> 26315 mg/l
LC50 Inhalation - Rat (Vapours)	> 25,8 mg/l/4h (6h)

#### Ethers (122-99-6)

LD50 oral rat	1260 mg/kg
LD50 oral	1850 mg/kg bodyweight

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<b>Ethers (122-99-6)</b>	
LD50 dermal rabbit	> 5000 mg/kg
LD50 dermal	14391 mg/kg bodyweight
LC50 Inhalation - Rat (Dust/Mist)	> 1000 mg/l
<b>Alkylsulphates (126-92-1)</b>	
LD50 oral rat	2840 – 4000 mg/kg
LD50 dermal rat	2000 – 6540 µl/kg
<b>Sodium cumenesulfonate (15763-76-5)</b>	
LD50 oral rat	> 2000 (2001 – 7000) mg/kg (OECD 401)
LD50 oral	> 7000 mg/kg bodyweight (Rat)
LD50 dermal rabbit	> 2000 mg/kg
LC50 Inhalation - Rat	> 5 mg/l (232 min.)
<b>(R)-p-mentha-1,8-diene (D-Limonene) (5989-27-5)</b>	
LD50 oral rat	4400 mg/kg
LD50 dermal rabbit	5000 mg/kg
<b>Citral (5392-40-5)</b>	
LD50 oral rat	3450 – 4960 mg/kg
LD50 dermal rat	> 2000 mg/kg
LD50 dermal rabbit	2250 mg/kg
<b>Sodium hydroxide (1310-73-2)</b>	
LD50 oral rat	> 500 mg/kg (Rabbit)
<b>2,6-di-tert-butyl-p-cresol (128-37-0)</b>	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 5000 mg/kg
<b>(99-87-6)</b>	
LD50 oral rat	4750 mg/kg
LD50 dermal rabbit	5000 mg/kg
<b>Terpenes (80-56-8)</b>	
LD50 oral rat	3700 mg/kg
LD50 oral	3700 mg/kg bodyweight
LD50 dermal	> 5000 mg/kg bodyweight
<b>Benzyl alcohol (100-51-6)</b>	
LD50 oral rat	1230 – 1660 mg/kg
LD50 oral	1230 mg/kg bodyweight
LD50 dermal rabbit	> 2000 mg/kg
LD50 dermal	> 2000 mg/kg bodyweight
LC50 Inhalation - Rat	4,2 – 1000 mg/l/4h
LC50 Inhalation - Rat (Dust/Mist)	4,178 mg/l/4h

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### 2(10)-Pinene [Bicyclo(3.1.1)heptane, 6,6-dimethyl-2-methylene-] (127-91-3)

LD50 oral rat 4700 mg/kg

LD50 dermal rabbit > 5000 mg/kg

Skin corrosion/irritation : Not classified  
pH: 10 – 11 (20°C)

Additional information : Based on available data, the classification criteria are not met

### Ethers (122-99-6)

pH 5 – 7 (10 g/l, 20 °C | 1 %(m), 20 °C)

### Sodium hydroxide (1310-73-2)

pH > 14 (20°C)

Serious eye damage/irritation : Causes serious eye irritation.  
pH: 10 – 11 (20°C)

### Ethers (122-99-6)

pH 5 – 7 (10 g/l, 20 °C | 1 %(m), 20 °C)

### Sodium hydroxide (1310-73-2)

pH > 14 (20°C)

Respiratory or skin sensitisation : Not classified

Additional information : Based on available data, the classification criteria are not met

Germ cell mutagenicity : Not classified

Additional information : Based on available data, the classification criteria are not met

Carcinogenicity : Not classified

Additional information : Based on available data, the classification criteria are not met

Reproductive toxicity : Not classified

Additional information : Based on available data, the classification criteria are not met

STOT-single exposure : Not classified

Additional information : Based on available data, the classification criteria are not met

### 1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2)

NOAEL (oral, rat) 919 mg/kg bodyweight

NOAEL (dermal, rat/rabbit) > 1000 mg/kg bodyweight

NOAEC (inhalation, rat, vapour) 3,7 mg/l

STOT-single exposure May cause drowsiness or dizziness.

### Ethers (122-99-6)

NOAEL (oral, rat) 700 mg/kg bodyweight

STOT-single exposure May cause respiratory irritation.

### Benzyl alcohol (100-51-6)

NOAEL (oral, rat) > 400 mg/kg bodyweight (OECD 451)

NOAEC (inhalation, rat, dust/mist/fume) (NOAEL: 1072 mg/kg lg/dag)

NOAEL (acute, oral, animal/male) > 200 mg/kg bodyweight (Mice, OECD 453)

STOT-repeated exposure : Not classified

Additional information : Based on available data, the classification criteria are not met

Aspiration hazard : Not classified

Additional information : Based on available data, the classification criteria are not met

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Viscosity, kinematic < 9,699 mm<sup>2</sup>/s

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<b>3-butoxypropan-2-ol; propylene glycol monobutyl ether (5131-66-8)</b>	
Viscosity, kinematic	3,85 mm <sup>2</sup> /s (20°C)
<b>1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2)</b>	
Viscosity, kinematic	1,86 mm <sup>2</sup> /s (25°C)
<b>Ethers (122-99-6)</b>	
Viscosity, kinematic	27,027 – 36,937 mm <sup>2</sup> /s
<b>Benzyl alcohol (100-51-6)</b>	
Viscosity, kinematic	5,34 mm <sup>2</sup> /s

### 11.2. Information on other hazards

#### 11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : See Section 2.3.

#### 11.2.2. Other information

Potential adverse human health effects and symptoms : Based on available data, the classification criteria are not met, With the product as such no toxicological tests have been done. According to the criteria of art. 3 from (EC) Nr. 1272/2008 [CLP] this product is classified as mentioned in section 2. Components that are toxic are mentioned in section 3.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : With the product as such no ecological tests have been done. According to the criteria of art. 3 from (EC) Nr. 1272/2008 [CLP] this product is classified concerning the environment as mentioned in section 2. Components that are dangerous to the environment are mentioned in section 3.

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

<b>3-butoxypropan-2-ol; propylene glycol monobutyl ether (5131-66-8)</b>	
LC50 - Fish [1]	560 – 1000 mg/l (96h, Poecilia reticulata, OECD 203)
EC50 - Crustacea [1]	> 1000 mg/l (48h, Daphnia magna, OECD 202)
EC50 - Other aquatic organisms [1]	> 1000 mg/l
EC50 72h - Algae [1]	> 1000 mg/l (Algae, 72h, Selenastrum capricornutum)
EC50 96h - Algae [1]	> 1000 mg/l (96h, Pseudokirchneriella subcapitata, OECD 201)
NOEC chronic algae	560 mg/l (96h, Pseudokirchneriella subcapitata, OECD 201)
<b>1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2)</b>	
LC50 - Fish [1]	> 4000 (4000 – 10000) mg/l (96h, Leuciscus idus)
LC50 - Fish [2]	20800 mg/l (96h, Pimephales promelas)
EC50 - Crustacea [1]	23300 mg/l (48h)
EC50 - Crustacea [2]	> 500 mg/l (48h)
EC50 - Other aquatic organisms [1]	23300 mg/l waterflea
EC50 - Other aquatic organisms [2]	> 500 mg/l

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<b>1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2)</b>	
EC50 72h - Algae [1]	> 1000 mg/l (72h, Pseudokirchneriella subcapitata)
<b>Ethers (122-99-6)</b>	
LC50 - Fish [1]	344 mg/l (96h, Pimephales promelas)
EC50 - Crustacea [1]	> 500 mg/l (48h)
EC50 - Other aquatic organisms [2]	443 mg/l
EC50 72h - Algae [1]	> 500 mg/l (Algae, EC50, 72h, Scenedesmus subspicatus))
<b>Alkylsulphates (126-92-1)</b>	
LC50 - Fish [1]	> 40 mg/l (96h, Oncorhynchus mykiss, semi-static)
LC50 - Fish [2]	> 100 (96h)
EC50 - Crustacea [1]	483 mg/l (48h)
EC50 72h - Algae [1]	511 mg/l (72h, Desmodesmus subspicatus)
EC50 72h - Algae [2]	> 511 mg/l (72h, IC 50)
<b>Sodium cumenesulfonate (15763-76-5)</b>	
LC50 - Fish [1]	> 100 mg/l (96h, Oncorhynchus mykiss)
LC50 - Fish [2]	> 100 mg/l (96h, Danio rerio, OECD 203)
EC50 - Crustacea [1]	> 100 mg/l (48h, Daphnia magna, OECD 202)
EC50 - Other aquatic organisms [1]	> 100 mg/l (72h, Desmodesmus subspicatus)
EC50 - Other aquatic organisms [2]	> 1000 mg/l (Bacteriacea, EC10, 3h, OECD 209)
EC50 72h - Algae [1]	> 100 mg/l
<b>Potassiumcocoate (61789-30-8)</b>	
LC50 - Fish [1]	> 10 mg/l
EC50 - Crustacea [1]	> 10 mg/l (48h)
<b>(R)-p-mentha-1,8-diene (D-Limonene) (5989-27-5)</b>	
LC50 - Fish [1]	0,7 mg/l (96h, Pimephales promelas)
LC50 - Fish [2]	< 1 mg/l (96h)
LC50 - Other aquatic organisms [1]	0,67 mg/l (48h, Daphnia magna, OECD 202)
EC50 - Crustacea [1]	0,4 mg/l (48h)
EC50 - Crustacea [2]	< 1 mg/l (48h)
EC50 72h - Algae [1]	< 1 mg/l (72h, IC50)
EC50 72h - Algae [2]	150 mg/l (72h, Desmodesmus subspicatus, OECD 201)
<b>Citral (5392-40-5)</b>	
LC50 - Fish [1]	4,6 – 10 mg/l (96h)
EC50 - Crustacea [1]	7 mg/l (48h)
EC50 - Other aquatic organisms [1]	103,8 (72h, hydrophytes)
<b>Sodium hydroxide (1310-73-2)</b>	
LC50 - Fish [1]	33 – 189 mg/l (96h)

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<b>Sodium hydroxide (1310-73-2)</b>	
LC50 - Fish [2]	189 (48h, <i>Leuciscus idus</i> , OECD 203)   125 mg/l ( <i>Gambusia affinis</i> ; 96 h)   145 mg/l ( <i>Poecilia reticulata</i> ; 24 h)
LC50 - Other aquatic organisms [1]	45,5 mg/l (LC50, fish, <i>Oncorhynchus mykiss</i> )
EC50 - Crustacea [1]	33 – 450 (48h)
EC50 - Crustacea [2]	40,4 mg/l (48h, <i>Ceriodaphnia</i> sp.)
EC50 - Other aquatic organisms [1]	> 33 mg/l EC50 waterflea (48 h)
<b>2,6-di-tert-butyl-p-cresol (128-37-0)</b>	
EC50 - Crustacea [1]	0,61 mg/l (48h)
EC50 - Other aquatic organisms [1]	> 10000 mg/l (3h, bacteriaceae)
<b>Terpenes (80-56-8)</b>	
LC50 - Fish [1]	0,28 mg/l
LC50 - Fish [2]	0,303 mg/l (96h)
EC50 - Crustacea [1]	0,475 mg/l (48h)
EC50 - Other aquatic organisms [1]	1,44 mg/l waterflea
<b>Benzyl alcohol (100-51-6)</b>	
LC50 - Fish [1]	460 mg/l (LC50, 96h, <i>Pimephales promelas</i> )
LC50 - Fish [2]	10 mg/l (96h, <i>Lepomis macrochirus</i> )
LC50 - Other aquatic organisms [1]	646 mg/l (48h, <i>Leuciscus idus</i> )
EC50 - Crustacea [1]	230 – 360 mg/l (48h, <i>Daphnia magna</i> , OECD 202)
EC50 - Crustacea [2]	55 mg/l (24h, OECD 202)
EC50 - Other aquatic organisms [1]	700 mg/l (Algae, IC50, 72h, <i>Pseudokirchneriella subcapitata</i> , OECD 201)
EC50 - Other aquatic organisms [2]	71,42 mg/l (Bacteriaceae, EC50, 30 min., <i>Photobacterium phosphoreum</i> )
EC50 72h - Algae [1]	770 mg/l (72h, <i>Pseudokirchneriella subcapitata</i> , OECD 201)
EC50 96h - Algae [1]	640 mg/l
ErC50 algae	640 mg/l (EC50, 96h, <i>Scenedesmus quadricauda</i> , OECD 201)
NOEC (chronic)	51 mg/l (21d, <i>Daphnia magna</i> )
NOEC chronic crustacea	51 mg/l (21d, <i>Daphnia magna</i> , OECD 211)
NOEC chronic algae	310 mg/l (72h, <i>Pseudokirchneriella subcapitata</i> , OECD 201)
<b>2(10)-Pinene [Bicyclo(3.1.1)heptane, 6,6-dimethyl-2-methylene-] (127-91-3)</b>	
LC50 - Fish [1]	0,68 mg/l (96h)
EC50 - Crustacea [1]	0,86 mg/l (48h)
EC50 72h - Algae [1]	0,7 mg/l (72h)
<b>12.2. Persistence and degradability</b>	
<b>James Basic Cleaner</b>	
Persistence and degradability	Not established.
<b>Water (7732-18-5)</b>	
Persistence and degradability	Rapidly degradable

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<b>3-butoxypropan-2-ol; propylene glycol monobutyl ether (5131-66-8)</b>	
Persistence and degradability	Rapidly degradable
Biodegradation	90 % (28d, OECD 301E)
<b>1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2)</b>	
Persistence and degradability	Readily biodegradable.
Biodegradation	> 70 % (OECD 301 E)   (96 %: 28 days)
<b>Ethers (122-99-6)</b>	
Persistence and degradability	Rapidly degradable
Biodegradation	70 % (15d, OECD 301A)
<b>Alkylsulphates (126-92-1)</b>	
Persistence and degradability	Not rapidly degradable
<b>Sodium cumenesulfonate (15763-76-5)</b>	
Persistence and degradability	Not rapidly degradable
Biodegradation	> 60 % (6d, OECD TG 301B)
<b>Potassiumcocoate (61789-30-8)</b>	
Persistence and degradability	Readily biodegradable.
<b>(R)-p-mentha-1,8-diene (D-Limonene) (5989-27-5)</b>	
Persistence and degradability	Not rapidly degradable
Biodegradation	72 – 83,4 % (OECD 301 B)
<b>Citral (5392-40-5)</b>	
Persistence and degradability	Rapidly degradable
<b>Sodium hydroxide (1310-73-2)</b>	
Persistence and degradability	Rapidly degradable
<b>2,6-di-tert-butyl-p-cresol (128-37-0)</b>	
Persistence and degradability	Not rapidly degradable
<b>(99-87-6)</b>	
Persistence and degradability	Not rapidly degradable
<b>Terpenes (80-56-8)</b>	
Persistence and degradability	Not rapidly degradable
<b>Benzyl alcohol (100-51-6)</b>	
Persistence and degradability	Rapidly degradable
Biodegradation	> 90 % (OECD 301A, OECD 301C, OECD 301 D)
<b>2(10)-Pinene [Bicyclo(3.1.1)heptane, 6,6-dimethyl-2-methylene-] (127-91-3)</b>	
Persistence and degradability	Not rapidly degradable

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### 12.3. Bioaccumulative potential

#### James Basic Cleaner

Bioaccumulative potential	Not established.
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#### Water (7732-18-5)

Partition coefficient n-octanol/water (Log Kow)	-1,38
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#### 3-butoxypropan-2-ol; propylene glycol monobutyl ether (5131-66-8)

Partition coefficient n-octanol/water (Log Pow)	1,2
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Partition coefficient n-octanol/water (Log Kow)	0,98
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#### 1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2)

Partition coefficient n-octanol/water (Log Pow)	-0,437
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Partition coefficient n-octanol/water (Log Kow)	-0,49
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#### Ethers (122-99-6)

Bioconcentration factor (BCF REACH)	0,35
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Partition coefficient n-octanol/water (Log Pow)	1,09
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Partition coefficient n-octanol/water (Log Kow)	1,16 (OECD 107)
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#### Alkylsulphates (126-92-1)

Partition coefficient n-octanol/water (Log Pow)	-0,35
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Partition coefficient n-octanol/water (Log Kow)	-0,35
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#### Sodium cumenesulfonate (15763-76-5)

Partition coefficient n-octanol/water (Log Kow)	-1,5
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#### Potassiumcocoate (61789-30-8)

Partition coefficient n-octanol/water (Log Pow)	4
---	---

Partition coefficient n-octanol/water (Log Kow)	1,19
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#### (R)-p-mentha-1,8-diene (D-Limonene) (5989-27-5)

Partition coefficient n-octanol/water (Log Kow)	4,38
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#### Citral (5392-40-5)

Partition coefficient n-octanol/water (Log Kow)	3,45
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#### Sodium hydroxide (1310-73-2)

Partition coefficient n-octanol/water (Log Kow)	-3,88
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#### 2,6-di-tert-butyl-p-cresol (128-37-0)

Partition coefficient n-octanol/water (Log Pow)	4,17
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Partition coefficient n-octanol/water (Log Kow)	5,1
---	-----

#### (99-87-6)

Partition coefficient n-octanol/water (Log Kow)	4,1
---	-----

#### Terpenes (80-56-8)

Partition coefficient n-octanol/water (Log Pow)	4,32
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Partition coefficient n-octanol/water (Log Kow)	4,44
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### Benzyl alcohol (100-51-6)

Partition coefficient n-octanol/water (Log Pow) 1,1

Partition coefficient n-octanol/water (Log Kow) 1,1

### 2(10)-Pinene [Bicyclo(3.1.1)heptane, 6,6-dimethyl-2-methylene-] (127-91-3)

Partition coefficient n-octanol/water (Log Kow) 4,16

### 12.4. Mobility in soil

#### Benzyl alcohol (100-51-6)

Surface tension 39 mN/m (20°C, OECD 115)

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : See Section 2.3.

### 12.7. Other adverse effects

#### James Basic Cleaner

Other information Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Regional waste regulation : Disposal must be done according to official regulations.  
Product/Packaging disposal recommendations : This material and its container must be disposed of in a safe way, and as per local legislation. Product as it is : Chemical refuse, Dispose as hazardous waste. Empty containers can be dumped after cleaning according to local legislation. Recycling is preferred to disposal or incineration. Empty the packaging completely prior to disposal. Wash away remainder with plenty of water.  
Ecological waste information : Avoid release to the environment.  
European List of Waste (LoW, EC 2000/532) : 20 01 29\* - detergents containing dangerous substances

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number or ID number</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.2. UN proper shipping name</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.3. Transport hazard class(es)</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.4. Packing group</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

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ADR	IMDG	IATA	ADN	RID
<b>14.5. Environmental hazards</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available				

### 14.6. Special precautions for user

#### Overland transport

Not applicable

#### Transport by sea

Not applicable

#### Air transport

Not applicable

#### Inland waterway transport

Not applicable

#### Rail transport

Not applicable

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

##### REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

##### REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

##### REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

##### PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

##### POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

##### Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

##### Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

##### Biocide Regulation (528/2012)

Contains substance(s) listed on the Biocidal Products list (Regulation EU 528/2012 concerning the making available on the market and use of biocidal products)

Type of product (Biocide)

: 6 - Preservatives for products during storage

Contains

: PHENOXYETHANOL

# James Basic Cleaner

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### Detergent Regulation (EC 648/2004)

Labelling of contents	
Component	%
anionic surfactants, soap, non-ionic surfactants	<5%
PHENOXYETHANOL	
perfumes	
D-LIMONENE	
CITRAL	
CITRUS AURANTIUM PEEL OIL	

### Fragrance allergens > 0.01%:

D-LIMONENE

CITRAL

CITRUS AURANTIUM PEEL OIL

### Explosives Precursors Regulation (EU 2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

### Drug Precursors Regulation (EC 273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

### 15.1.2. National regulations

#### France

Occupational diseases	
Code	Description
RG 84	Conditions caused by liquid organic solvents for professional use: saturated or unsaturated aliphatic or cyclic liquid hydrocarbons and mixtures thereof; liquid halogenated hydrocarbons; nitrated derivatives of aliphatic hydrocarbons; alcohols; glycols, glycol ethers; ketones; aldehydes; aliphatic and cyclic ethers, including tetrahydrofuran; esters; dimethylformamide and dimethylacetamide; acetonitrile and propionitrile; pyridine; dimethylsulfone and dimethylsulfoxide

#### Germany

Water hazard class (WGK)

: WGK 2, Significantly hazardous to water (Classification according to AwSV, Annex 1).

List of sensitizing substances (TRGS 907)

: Contains sensitizing substances according TRGS 907.

#### Netherlands

ABM category

: B(4) - low hazard for aquatic organisms

SZW-lijst van kankerverwekkende stoffen

: None of the components are listed

SZW-lijst van mutagene stoffen

: None of the components are listed

SZW-lijst van reprotoxische stoffen – Borstvoeding

: None of the components are listed

SZW-lijst van reprotoxische stoffen –

: None of the components are listed

Vruchtbaarheid

SZW-lijst van reprotoxische stoffen – Ontwikkeling

: 2-methoxypropanol, Methyl salicylate are listed

#### Denmark

Classification remarks

: Emergency management guidelines for the storage of flammable liquids must be followed

Danish National Regulations

: Pregnant/breastfeeding women working with the product must not be in direct contact with it.

If an employee is pregnant or breastfeeding and the person in question uses or is exposed to this product at work, the employer must always carry out a risk assessment of the work. The assessment must both deal with the dangerousness of the impact and its strength and duration. The employer's decision that a pregnant or lactating woman can perform a specific work task must therefore be made in the context of her specific working conditions. See also WEA-Guideline A.1.8-7 on the working environment of pregnant and breastfeeding workers.

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### Poland

#### Polish National Regulations

: Act of 25 February 2011 on chemical substances and their mixtures (J. o L. No. 63, item 322 as amended; consolidated text J. o L. 2019, item 1225).  
Act of 14 December 2012 on waste (J. o L. 2013, item 322 as amended; consolidated text J. o L. 2020, item 797).  
The announcement of Marshal of the Sejm of the Republic of Poland dated 19 October 2016 concerning the consolidated text announcement of the decree on the management of packaging and packaging waste (J. o L. 2016, item 1863 as amended).  
Decree of the Minister of Environment of 14 December 2014 on the catalogue of waste (J. o L. 2014, item 1923).  
Act of 19 August 2011 on the Carriage of Dangerous Goods (J. o L. 2011 No. 227, item 1367 as amended; consolidated text J. o L. 2020, item 154).  
Regulation of the Minister of Family, Labour and Social Policy of 12 June 2018 on the highest permissible concentration and intensity of noxious agents for health at work environment (J. o L. item 1286 as amended).  
The announcement of Minister of Health dated 9 September 2016 concerning the consolidated text announcement of the decree of the Minister of Health of 30 December 2004 on health and safety at work related to exposure to chemical agents at work (J. o L. of 16 September 2016, item 1488)  
Regulation of the Minister of Health of 2 February 2011 on tests and measurements of the noxious agents for health at work environment (J. o L. No. 33, item 166 as amended).  
Regulation of the Minister of Environment of 9 December 2003 on particularly hazardous substances to the environment (J. o L. No. 217, item 2141).  
ADR Agreement: Government Statement of 13 March 2023 on the entry into force of amendments to Annexes A and B to the Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), signed in Geneva on 30 September 1957 (J. o. L. 2023, item 891)  
Regulation of the Minister of Health of 25 August 2015 on the method of marking places, pipelines, and containers and tanks used for storing or containing hazardous substances or hazardous mixtures (J.o.L. 2015, item 1368 as amended)

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

Raw materials information section 3.

See <http://esis.jrc.ec.europa.eu/index.php?PGM=dat> : Information on ingredients.

Health hazards

See Section 2 & 3 & 11.

Physical hazards

See Section 2 & 10.

Environmental hazards

See Section 2 & 3 & 12.

### SECTION 16: Other information

#### Indication of changes

Section	Changed item	Comments
	Supersedes	<b>Added</b>
	Revision date	<b>Modified</b>
	Issue date	<b>Modified</b>
	Version	<b>Modified</b> Minor

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### Abbreviations and acronyms:

	ABM: Algemene Beoordelings Methodiek (NL) / ADR: Accord Européen relatif au transport international des marchandises dangereuses par route) / ALG: Allergen / AQTX: Aquatic Toxicity / Atm: Atmosphere (unit of pressure) / bw: bodyweight / C: Ceiling / CAR:\Carcinogenic Effects / CAS No: Chemical Abstracts Service Number (see ACS – American Chemical Society) / CMRs: Carcinogenic, Mutagenic or toxic to Reproduction (substances) / CSR: Chemical Safety Report / Cc (cm3): Cubic Centimeter / DNEL: Derived No-Effect Level / EC50: half maximal effective concentration / ED50: Effective Dose 50 / ET50: Exposure Time 50 / I.V.: Intravenous / Kg: Kilogram / LC: Lethal Concentration / LC50: Median Lethal Concentration / LCLO: Lowest Lethal Airborne Concentration Tested (see also LC50, LD50) / LD: Lethal Dose / LD50: Median Lethal Dose LDLO: Lowest Lethal Dose Tested (see also LC50, LD50) / MAC: Maximum Allowable Concentration / MAK: Maximale Arbeitsplatz-Konzentration (Germany, Maximum Workplace Concentration, see OEL) / MSDS: Material Safety Data Sheet / NOAEL: No Observed Adverse Effect Level / NOEL: No Observable Effect Level / OEL: Occupational Exposure Limits / PBTs: Persistent, Bioaccumulative and Toxic substances / PEC: Predicted Environmental Concentration / PNEC: Predicted No-Effect Concentration / REACH: Registration, Evaluation, Authorisation and Restriction of Chemical substances / STEL: Short-Term Exposure Limit / STEV: Short-Term Exposure Value / STP: Sewage Treatment Plant TLM: Threshold Limit, Median / TLV-C: Threshold Limit Value-Ceiling / TLV@: Threshold Limit Value / TWA: Time-Weighted Average / WGK: Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act) / g/gms: Grams / kJ/mol: Kilojoules per mole / kPa: KiloPascal (unit of pressure) / m3: Cubic Meter / mg: Milligram / ml: Milliliter / ml Hg: Milliliters of Mercury / n.o.s.: Not Otherwise Specified / nm: nanometer / ppb: Parts Per Billion / pph: parts per hundred (= percent) / ppm: Parts Per Million / ppt: parts per trillion / vPvBs: Very Persistent and Very Bioaccumulative substances
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
DPD	Dangerous Preparations Directive 1999/45/EC
DSD	Dangerous Substances Directive 67/548/EEC
EC50	Median effective concentration
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
STP	Sewage treatment plant

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### Abbreviations and acronyms:

TLM	Median Tolerance Limit
SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative

Data sources	: Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals. REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. Regulation (EC) No. 648/2004 of 31 March 2004 on detergents.
Other information	: None. <b>DISCLAIMER OF LIABILITY</b> The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

### Full text of H- and EUH-statements:

Acute Tox. 3 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 3
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Acute Tox. Not classified (Dermal)	Acute toxicity (dermal) Not classified
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Flam. Liq. Not classified	Flammable liquids Not classified
Met. Corr. 1	Corrosive to metals, Category 1
Skin Corr. 1	Skin corrosion/irritation, Category 1
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1B	Skin sensitisation, category 1B
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis

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Full text of H- and EUH-statements:	
H226	Flammable liquid and vapour.
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH208	Contains D-LIMONENE. May produce an allergic reaction.

Full text of use descriptors	
AISE SPERC 8a.1.a.v2	Wide Dispersive Use in 'Down the Drain' cleaning and maintenance products (Consumers and Professionals)
ERC8a	Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
PC35	Washing and cleaning products
PROC10	Roller application or brushing
PROC19	Manual activities involving hand contact
PROC2	Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions
PROC8b	Transfer of substance or mixture (charging and discharging) at dedicated facilities
SU21	Consumer uses: Private households (= general public = consumers)
SU22	Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.