

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

1.1. Product identifier

Product form : Mixture
 Name : James Cleanmaster
 UFI : AX8W-HNES-PEOK-GS96
 Product code : 4745.0_76068RT**
 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
 Function or use category : Cleaning/washing agents and additives

Title	Use descriptors
Transfer of product via a dedicated system (bottle/machine) (Association ref code: AISE_SUMI_PW_8a_2_G)	SU22, PC35, PROC8b, ERC8a, AISE SPERC 8a.1.a.v2
Professional uses; (Trigger) spraying (Association ref code: AISE_SUMI_PW_11_1_G)	SU22, PC35, PROC11, ERC8a, AISE SPERC 8a.1.a.v2
Professional uses; Brushing after trigger spraying or brushing with tools (Association ref code: AISE_SUMI_PW_10_1_G)	SU22, PC35, PROC10, 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

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, METHYLCHLOROISOTHIAZOLINONE, METHYLISOTHIAZOLINONE. May produce an allergic reaction.

Intended for general public

Child-resistant fastening : Not applicable

Tactile warning : Not applicable

2.3. Other hazards

Other hazards which do not result in classification : None under normal conditions. The information in this section applies to the undiluted product.

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	Not classified
Alcohols, C12-14, ethoxylated (7EO) (INCI: C12-14 PARETH-7)	CAS-No.: 68439-50-9	1 – 5	Eye Dam. 1, H318 Aquatic Chronic 3, H412
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
(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
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
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

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Name	Product identifier	Conc. (% w/w)	Classification according to Regulation (EC) No. 1272/2008 [CLP]
5-chloro-2-methyl-4-isothiazoline-3-one(MCI)(KathonCG) (INCI: METHYLCHLOROISOTHIAZOLINONE) (Active substance (Biocide)) substance with national workplace exposure limit(s) (DE, AT, SI)	CAS-No.: 26172-55-4 EC-No.: 247-500-7 REACH-no: 01-2120764691-48	< 0,1	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100)
2-Methyl-4-isothiazolin-3-one(MI) (INCI: METHYLISOTHIAZOLINONE) (Active substance (Biocide)) substance with national workplace exposure limit(s) (AT, SI)	CAS-No.: 2682-20-4 EC-No.: 220-239-6 REACH-no: 01-2120764691-48	< 0,1	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 2 (Inhalation:dust,mist), H330 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
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))
5-chloro-2-methyl-4-isothiazoline-3-one(MCI)(KathonCG) (INCI: METHYLCHLOROISOTHIAZOLINONE) (Active substance (Biocide))	CAS-No.: 26172-55-4 EC-No.: 247-500-7 REACH-no: 01-2120764691-48	(0,0015 ≤ C < 100) Skin Sens. 1; H317 (0,06 ≤ C < 100) Skin Irrit. 2; H315 (0,06 ≤ C < 100) Eye Irrit. 2; H319 (0,6 ≤ C < 100) Skin Corr. 1B; H314
2-Methyl-4-isothiazolin-3-one(MI) (INCI: METHYLISOTHIAZOLINONE) (Active substance (Biocide))	CAS-No.: 2682-20-4 EC-No.: 220-239-6 REACH-no: 01-2120764691-48	(0,0015 ≤ C < 100) Skin Sens. 1; H317 (0,0015 ≤ C < 100) Skin Sens. 1A; H317

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

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	: Not expected to present a significant inhalation hazard under anticipated conditions of normal use. Allow affected person to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact	: Rinse skin with water/shower.
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	: Not expected to present a significant skin hazard. The product is not considered to be irritating to the skin.
Symptoms/effects after eye contact	: Causes serious eye irritation. Blurred vision. Burning sensation. Tears. Redness.

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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

Fire hazard : Not combustible.

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. Self-contained breathing apparatus. Complete protective clothing.

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.

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Do not breathe vapours. Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". Equip cleanup crew with proper protection.
Emergency procedures : Ventilate area.

6.2. Environmental precautions

Do not flush into surface water. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Dispose in a safe manner in accordance with local/national regulations. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. 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 : Normal precautions for the use of chemicals and cleaners should be taken care of. See information supplied by the manufacturer. 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.
Hygiene measures : Do not eat, drink or smoke when using this product.

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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.

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 ³
(R)-p-mentha-1,8-diene (D-Limonene) (5989-27-5)	
Finland - Occupational Exposure Limits	
Local name	D-Limoneeni
HTP (OEL TWA)	140 mg/m ³
	25 ppm
HTP (OEL STEL)	280 mg/m ³
	50 ppm
Regulatory reference	HTP-ARVOT 2025 (Sosiaali- ja terveysministeriö)
Germany - Occupational Exposure Limits (TRGS 900)	
Local name	(R)-p-Mentha-1,8-dien (D-Limonen)
AGW (OEL TWA)	28 mg/m ³
	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
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA)	168 mg/m ³ 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).

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Citral (5392-40-5)	
Poland - Occupational Exposure Limits	
Local name	3,7-Dimetylookta-2,6-dienal (cytral)
NDS (OEL TWA)	27 mg/m ³
NDSch (OEL STEL)	54 mg/m ³
Regulatory reference	Dz.U. 2014 poz. 817
Spain - Occupational Exposure Limits	
Local name	Citral
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
2,6-di-tert-butyl-p-cresol (128-37-0)	
Austria - Occupational Exposure Limits	
Local name	2,6-Di-tert-butyl-p-kresol
MAK (OEL TWA)	10 mg/m ³
Regulatory reference	BGBI. II Nr. 238/2018
Belgium - Occupational Exposure Limits	
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 ³
Regulatory reference	Koninklijk besluit/Arrêté royal 16/11/2023
Bulgaria - Occupational Exposure Limits	
Local name	Дибутилпаракрезол
OEL TWA	10 mg/m ³
OEL STEL	50 mg/m ³
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.)
Croatia - Occupational Exposure Limits	
Local name	2,6-Di-tert-butyl-p-krezol

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2,6-di-tert-butyl-p-cresol (128-37-0)	
GVI (OEL TWA)	10 mg/m ³
Regulatory reference	Pravilnik o zaštiti radnika od izloženosti opasnim kemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 148/2023)
Denmark - Occupational Exposure Limits	
Local name	2,6-Di-tert-butyl-p-cresol (Butylhydroxytoluen)
OEL TWA	10 mg/m ³
Regulatory reference	BEK nr 1619 af 19/12/2024
Finland - Occupational Exposure Limits	
Local name	2,6-Di-tert-butyli-p-kresoli
HTP (OEL TWA)	10 mg/m ³
HTP (OEL STEL)	20 mg/m ³
Regulatory reference	HTP-ARVOT 2025 (Sosiaali- ja terveystieteiden ministeriö)
France - Occupational Exposure Limits	
Local name	2,6-Di-tert-butyl-p-crésol
VLEP 8h (OEL TWA)	10 mg/m ³
Remark	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 6443, 2022; Outil65)
Germany - Occupational Exposure Limits (TRGS 900)	
Local name	2,6-Di-tert-butyl-p-kresol
AGW (OEL TWA)	10 mg/m ³ (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
Greece - Occupational Exposure Limits	
Local name	Βουτυλο-υπροξυ-τολουόλιο
OEL TWA	10 mg/m ³
Regulatory reference	Π.Δ. 90/1999 - Προστασία της υγείας των εργαζομένων που εκτίθενται σε ορισμένους χημικούς παράγοντες κατά τη διάρκεια της εργασίας τους
Portugal - Occupational Exposure Limits	
Local name	Hidroxitoluenobutilado (2,6-Di-terc-butil-p-cresol) (BHT)
OEL TWA	2 mg/m ³ FIV (Fração inalável e vapor)
Remark	A4 (Agente não classificável como carcinogénico no Homem)
Regulatory reference	Norma Portuguesa NP 1796:2014
Slovenia - Occupational Exposure Limits	
Local name	2,6-di-terc-butil-p-krezol
OEL TWA	10 mg/m ³
OEL STEL	40 mg/m ³

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2,6-di-tert-butyl-p-cresol (128-37-0)	
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
Spain - Occupational Exposure Limits	
Local name	2,6-Diterc-butil-p-cresol
VLA-ED (OEL TWA)	10 mg/m ³
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2025. INSHT
United Kingdom - Occupational Exposure Limits	
Local name	2,6-Di-tert-butyl-p-cresol
WEL TWA (OEL TWA)	10 mg/m ³
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
Switzerland - Occupational Exposure Limits	
Local name	Butylhydroxytoluol (BHT)
MAK (OEL TWA)	10 mg/m ³ 10 mg/m ³
KZGW (OEL STEL)	40 mg/m ³ 40 mg/m ³
Remark	e(mg/m ³) - C1 _B * SS _C - Leber - *Kein erhöhtes Krebsrisiko bei Einhalten des MAK-Werts ^s . 1.3.2.3
(99-87-6)	
Denmark - Occupational Exposure Limits	
Local name	1-Methyl-4-isopropylbenzen (p-Cymen)
OEL TWA	135 mg/m ³ 25 ppm
Regulatory reference	BEK nr 986 af 11/10/2012
Lithuania - Occupational Exposure Limits	
Local name	p-cimenas (p-metilizopropilbenzenas)
IPRV (OEL TWA)	140 mg/m ³ 25 ppm
TPRV (OEL STEL)	190 mg/m ³ 35 ppm
Regulatory reference	LIETUVOS HIGIENOS NORMA HN 23:2011
Sweden - Occupational Exposure Limits	
Local name	4-Metylisopropylbensen (Kumen)
NGV (OEL TWA)	140 mg/m ³ 25 ppm
KGV (OEL STEL)	190 mg/m ³ 35 ppm
Regulatory reference	Hygieniska gränsvärden (AFS 2015:7)

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METHYLCHLOROISOTHIAZOLINONE (26172-55-4)	
Austria - Occupational Exposure Limits	
Local name	5-Chlor-2-methyl-2,3-dihydroisothiazol-3-on und 2-Methyl-2,3-di-hydroisothiazol-3-on (Gemisch im Verhältnis 3:1)
MAK (OEL TWA)	0,05 mg/m ³
Remark	Sh,H
Regulatory reference	BGBI. II Nr. 186/2015
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL C)	0,2 mg/m ³
Slovenia - Occupational Exposure Limits	
Local name	5-kloro-2-metil-2,3-dihidro-izotiazol-3-on in
OEL TWA	0,05 mg/m ³
Regulatory reference	Uradni list RS, št. 102/2010 z dne 17.12.2010
Switzerland - Occupational Exposure Limits	
Local name	5-Chlor-2-methyl-2,3-dihydro-isothiazol-3-on und 2-Methyl-2,3-dihydroisothiazol-3-on Gemisch im Verhältnis 3:1
MAK (OEL TWA)	0,2 mg/m ³
KZGW (OEL STEL)	0,4 mg/m ³
Remark	e(mg/m ³) - S SSc - Haut, Auge, OAW ^{KT AN}
Regulatory reference	SUVA - Grenzwerte am Arbeitsplatz 2016
Terpenes (80-56-8)	
Belgium - Occupational Exposure Limits	
Local name	Essence de térébenthine et monoterpènes sélectionnés # Terpentijn en geselecteerde monoterpene
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 ³ 25 ppm
TPRV (OEL STEL)	300 mg/m ³ 50 ppm
Remark	Spygliuočių sakai jautrina odą. Atskirų terpenų, išskyrus 3-kareną, jautrinantis poveikis nėra iširtas.
Regulatory reference	LIETUVOS HIGIENOS NORMA HN 23:2011 (Nr. V-695/A1-272, 2018-06-12)
Portugal - Occupational Exposure Limits	
Local name	Terebentina, e monoterpeneos 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

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Terpenes (80-56-8)	
Norway - Occupational Exposure Limits	
Local name	α -pinen
Grenseverdi (OEL TWA)	140 mg/m ³
	25 ppm
Remark	H: Kjemikalier som kan tas opp gjennom huden.
Regulatory reference	FOR-2024-04-05-581
2-Methyl-4-isothiazolin-3-one(MI) (2682-20-4)	
Austria - Occupational Exposure Limits	
Local name	5-Chlor-2-methyl-2,3-dihydroisothiazol-3-on und 2-Methyl-2,3-di-hydroisothiazol-3-on (Gemisch im Verhältnis 3:1)
MAK (OEL TWA)	0,05 mg/m ³
Remark	Sh,H
Regulatory reference	BGBl. II Nr. 186/2015
Slovenia - Occupational Exposure Limits	
Local name	2-metil-2,3-dihidroizotiazol-3 on (3:1)
OEL TWA	0,05 mg/m ³
Regulatory reference	Uradni list RS, št. 102/2010 z dne 17.12.2010
Switzerland - Occupational Exposure Limits	
Local name	5-Chlor-2-methyl-2,3-dihydro-isothiazol-3-on und 2-Methyl-2,3-dihydroisothiazol-3-on Gemisch im Verhältnis 3:1
MAK (OEL TWA)	0,2 mg/m ³
KZGW (OEL STEL)	0,4 mg/m ³
Remark	e(mg/m ³) - S SSc - Haut, Auge, OAW ^{KT AN}
Regulatory reference	SUVA - Grenzwerte am Arbeitsplatz 2016
Benzyl alcohol (100-51-6)	
Bulgaria - Occupational Exposure Limits	
Local name	Бензилналкохол
OEL TWA	5 mg/m ³
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 ³
	9 ppm
NPK-P (OEL C)	80 mg/m ³
	18,1 ppm
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (zpracovány změny č. 93/2012 Sb., 9/2013 Sb.)
Finland - Occupational Exposure Limits	
Local name	Bentsyylialkoholi

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Benzyl alcohol (100-51-6)	
HTP (OEL TWA)	45 mg/m ³
	10 ppm
Regulatory reference	HTP-ARVOT 2016 (Sosiaali- ja terveysministeriö)
Latvia - Occupational Exposure Limits	
Local name	Benzilspirts (fenilmetanols, fenilkarbinols)
OEL TWA	5 mg/m ³
Regulatory reference	Ministru kabineta 2007.gada 15.maija noteikumiem Nr.325
Lithuania - Occupational Exposure Limits	
Local name	Benzilo alkoholis
IPRV (OEL TWA)	5 mg/m ³
Regulatory reference	LIETUVOS HIGIENOS NORMA HN 23:2011
Poland - Occupational Exposure Limits	
Local name	Fenylometanol
NDS (OEL TWA)	240 mg/m ³
Regulatory reference	Dz.U. 2014 poz. 817
2(10)-Pinene [Bicyclo(3.1.1)heptane, 6,6-dimethyl-2-methylene-] (127-91-3)	
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 11/03/2002
Estonia - Occupational Exposure Limits	
Local name	β-pineen (vt terpeenid)
OEL TWA	150 mg/m ³
	25 ppm
OEL STEL	300 mg/m ³
	50 ppm
Regulatory reference	Vabariigi Valitsuse 18. septembri 2001. a määruse nr 293
Lithuania - Occupational Exposure Limits	
Local name	beta-pinenas (terpenai)
IPRV (OEL TWA)	150 mg/m ³
	25 ppm
TPRV (OEL STEL)	300 mg/m ³
	50 ppm
Regulatory reference	LIETUVOS HIGIENOS NORMA HN 23:2011
Portugal - Occupational Exposure Limits	
Local name	Terebentina, e monoterenos específicos
OEL TWA	20 ppm
Regulatory reference	Norma Portuguesa NP 1796:2014

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

Spain - Occupational Exposure Limits

Local name	β-pineno
VLA-ED (OEL TWA)	113 mg/m ³
	20 ppm
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2017. INSHT

Sweden - Occupational Exposure Limits

Local name	β-Pinen (jfr Terpener)
NGV (OEL TWA)	150 mg/m ³
	25 ppm
KGV (OEL STEL)	300 mg/m ³
	50 ppm
Regulatory reference	Hygieniska gränsvärden (AFS 2015:7)

Norway - Occupational Exposure Limits

Local name	β-pinen
Grenseverdi (OEL TWA)	140 mg/m ³
	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

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DNEL/DMEL (additional information)

See http://www.dguv.de/ifa/de/gestis/limit_values/index.jsp: Information on ingredients.

Sodium cumenesulfonate (15763-76-5)

DNEL/DMEL (Workers)

Long-term - systemic effects, dermal	7,6 – 191 mg/kg bodyweight/day
Long-term - local effects, dermal	0,096 mg/cm ²
Long-term - systemic effects, inhalation	26,9 – 53,6 mg/m ³

DNEL/DMEL (General population)

Long-term - systemic effects, oral	3,8 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	6,6 – 13,2 mg/m ³
Long-term - systemic effects, dermal	3,8 – 68,1 mg/kg bodyweight/day
Long-term - local effects, dermal	0,048 mg/cm ²

PNEC (Water)

PNEC aqua (freshwater)	0,1 – 0,23 mg/l
PNEC aqua (marine water)	0,01 – 0,023 mg/l

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Sodium cumenesulfonate (15763-76-5)	
PNEC aqua (intermittent, freshwater)	1 – 2,3 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0,372 – 0,862 mg/kg dwt
PNEC sediment (marine water)	0,0372 – 0,0862 mg/kg dwt
PNEC (Soil)	
PNEC soil	0,016 – 0,037 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	100 mg/l
(R)-p-mentha-1,8-diene (D-Limonene) (5989-27-5)	
DNEL/DMEL (Workers)	
Acute - local effects, dermal	0,222 mg/cm ²
Long-term - systemic effects, dermal	8,89 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	31,1 – 33,3 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	4,44 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	7,78 – 8,33 mg/m ³
Long-term - systemic effects, dermal	4,44 mg/kg bodyweight/day
Long-term - local effects, dermal	0,111 mg/cm ²
PNEC (Water)	
PNEC aqua (freshwater)	0,0054 mg/l
PNEC aqua (marine water)	0,00054 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	1,32 mg/kg dwt
PNEC sediment (marine water)	0,132 mg/kg dwt
PNEC (Soil)	
PNEC soil	0,262 mg/kg dwt
PNEC (Oral)	
PNEC oral (secondary poisoning)	3,33 kg/kg food
PNEC (STP)	
PNEC sewage treatment plant	1,8 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.

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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. Eye protection should only be necessary where liquid could be splashed or sprayed

8.2.2.2. Skin protection

Skin and body protection:

No special clothing/skin protection equipment is recommended under normal conditions of use

Hand protection:

None under normal use

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 when using this product. The information in this section applies to the undiluted product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: white.
Appearance	: Cloudy.
Odour	: perfumed.
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	: 6,8 (20°C)
Viscosity, kinematic	: Not available
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	: 1,023 g/cm ³ (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

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9.2.2. Other safety characteristics

No additional information available

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
Alcohols, C12-14, ethoxylated (7EO) (68439-50-9)	
LD50 oral rat	> 2000 mg/kg (OECD 401)
Sodium cumenesulfonate (15763-76-5)	
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.)
(R)-p-mentha-1,8-diene (D-Limonene) (5989-27-5)	
LD50 oral rat	4400 mg/kg
LD50 dermal rabbit	5000 mg/kg
Citral (5392-40-5)	
LD50 oral rat	3450 – 4960 mg/kg
LD50 dermal rat	> 2000 mg/kg

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Citral (5392-40-5)	
LD50 dermal rabbit	2250 mg/kg
2,6-di-tert-butyl-p-cresol (128-37-0)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 5000 mg/kg
(99-87-6)	
LD50 oral rat	4750 mg/kg
LD50 dermal rabbit	5000 mg/kg
METHYLCHLOROISOTHIAZOLINONE (26172-55-4)	
LD50 oral rat	457 mg/kg (CIT/MIT)
LD50 oral	481 mg/kg bodyweight
LD50 dermal rabbit	660 mg/kg (CIT/MIT)
LD50 dermal	> 1008 mg/kg bodyweight
LC50 Inhalation - Rat	2,36 mg/l/4h (CIT/MIT)
LC50 Inhalation - Rat (Dust/Mist)	1230 mg/m ³
Terpenes (80-56-8)	
LD50 oral rat	3700 mg/kg
LD50 oral	3700 mg/kg bodyweight
LD50 dermal	> 5000 mg/kg bodyweight
2-Methyl-4-isothiazolin-3-one(MI) (2682-20-4)	
LD50 oral rat	120 – 285 mg/kg
LD50 dermal rat	> 2000 mg/kg
LD50 dermal rabbit	660 mg/kg (CIT/MIT)
LD50 dermal	242 mg/kg (Rabbit, female)
LC50 Inhalation - Rat	0,11 – 0,384 mg/l/4h (OECD 403)
Benzyl alcohol (100-51-6)	
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
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: 6,8 (20°C)

Additional information

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

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Alcohols, C12-14, ethoxylated (7EO) (68439-50-9)

pH 5 – 8

Serious eye damage/irritation : Causes serious eye irritation.
pH: 6,8 (20°C)

Alcohols, C12-14, ethoxylated (7EO) (68439-50-9)

pH 5 – 8

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

2-Methyl-4-isothiazolin-3-one(MI) (2682-20-4)

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

Alcohols, C12-14, ethoxylated (7EO) (68439-50-9)

Viscosity, kinematic 30 mm²/s ca. 30 mm²/s (DIN 51562) | (40 °C) ~ 25 mPa.s

Benzyl alcohol (100-51-6)

Viscosity, kinematic 5,34 mm²/s

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

No additional information available

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.

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

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

Sodium cumenesulfonate (15763-76-5)

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

(R)-p-mentha-1,8-diene (D-Limonene) (5989-27-5)

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)

Citral (5392-40-5)

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)

2,6-di-tert-butyl-p-cresol (128-37-0)

EC50 - Crustacea [1]	0,61 mg/l (48h)
EC50 - Other aquatic organisms [1]	> 10000 mg/l (3h, bacteriaceae)

METHYLCHLOROISOTHIAZOLINONE (26172-55-4)

LC50 - Fish [1]	0,19 mg/l (96h, Oncorhynchus mykiss, mixture 5-chloor-2- methyl-2H-isothiazool-3-on (CAS 26172-55-4) and 2- methyl-2H-isothiazool-3-on (CAS 2682-20-4))
EC50 - Crustacea [1]	0,16 mg/l (48h, mixture 5-chloor-2- methyl-2H-isothiazool-3-on (CAS 26172-55-4) and 2- methyl-2H-isothiazool-3-on (CAS 2682-20-4))
EC50 - Crustacea [2]	0,1 (48h, mixture 5-chloor-2- methyl-2H-isothiazool-3-on (CAS 26172-55-4) and 2- methyl-2H-isothiazool-3-on (CAS 2682-20-4))
EC50 - Other aquatic organisms [1]	0,0052 mg/l (478h, Skeletonema costatum, OECD 201)
EC50 72h - Algae [1]	0,018 mg/l (Algae, EC50, 72h, Scenedesmus capricornutum, mixture 5-chloor-2- methyl-2H-isothiazool-3-on (CAS 26172-55-4) and 2-methyl-2H-isothiazool-3-on (CAS 2682-20-4))
EC50 72h - Algae [2]	0,048 mg/l (Algae, EC50, 72h, Scenedesmus capricornutum, mixture 5-chloor-2- methyl-2H-isothiazool-3-on (CAS 26172-55-4) and 2-methyl-2H-isothiazool-3-on (CAS 2682-20-4))
NOEC chronic fish	0,098 mg/l (28d, Oncorhynchus mykiss, OECD 210)
NOEC chronic crustacea	0,004 mg/l (21d, Daphnia magna, OECD 211)
NOEC chronic algae	0,0012 mg/l

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Terpenes (80-56-8)	
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
2-Methyl-4-isothiazolin-3-one(MI) (2682-20-4)	
LC50 - Fish [1]	4,77 – 6 mg/l (96h, Oncorhynchus mykiss, OECD 203)
LC50 - Fish [2]	(0,28 mg/l, 96h, Lepomis macrochirus, mixture 5-chloor-2-methyl-2H-isothiazool-3-on (CAS 26172-55-4) and 2- methyl-2H-isothiazool-3-on (CAS 2682-20-4))
EC50 - Crustacea [1]	0,93 – 1,9 mg/l (48h, OECD 202)
EC50 - Crustacea [2]	1,68 mg/l (48h, OECD 202)
EC50 72h - Algae [1]	0,158 mg/l (72h, Selenastrum capricornutum, OECD 201)
EC50 72h - Algae [2]	(0,18 mg/l, Algae, EC50, 72h, Scenedesmus capricornutum, mixture 5-chloor-2- methyl-2H-isothiazool-3-on (CAS 26172-55-4) and 2-methyl-2H-isothiazool-3-on (CAS 2682-20-4))
NOEC (chronic)	0,04 – 0,55 mg/l (21d, Daphnia magna, OECD 211)
NOEC chronic fish	2,38 mg/l (28d, Pimephales promelas, OECD 210)
NOEC chronic algae	0,03 (72h, Pseudokirchneriella subcapitata, OECD 201)
Benzyl alcohol (100-51-6)	
LC50 - Fish [1]	460 mg/l (LC50, 96h, Pimephales promelas)
LC50 - Fish [2]	10 mg/l (96h, Lepomis macrochirus)
LC50 - Other aquatic organisms [1]	646 mg/l (48h, Leuciscus idus)
EC50 - Crustacea [1]	230 – 360 mg/l (48h, Daphnia magna, OECD 202)
EC50 - Crustacea [2]	55 mg/l (24h, OECD 202)
EC50 - Other aquatic organisms [1]	700 mg/l (Algae, IC50, 72h, Pseudokirchneriella subcapitata, OECD 201)
EC50 - Other aquatic organisms [2]	71,42 mg/l (Bacteriacea, EC50, 30 min., Photobacterium phosphoreum)
EC50 72h - Algae [1]	770 mg/l (72h, Pseudokirchneriella subcapitata, OECD 201)
EC50 96h - Algae [1]	640 mg/l
Er50 algae	640 mg/l (EC50, 96h, Scenedesmus quadricauda, OECD 201)
NOEC (chronic)	51 mg/l (21d, Daphnia magna)
NOEC chronic crustacea	51 mg/l (21d, Daphnia magna, OECD 211)
NOEC chronic algae	310 mg/l (72h, Pseudokirchneriella subcapitata, OECD 201)
2(10)-Pinene [Bicyclo(3.1.1)heptane, 6,6-dimethyl-2-methylene-] (127-91-3)	
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)

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12.2. Persistence and degradability

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Persistence and degradability	Not established. 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.
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Water (7732-18-5)

Persistence and degradability	Rapidly degradable
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Alcohols, C12-14, ethoxylated (7EO) (68439-50-9)

Persistence and degradability	Rapidly degradable
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Sodium cumenesulfonate (15763-76-5)

Persistence and degradability	Not rapidly degradable
Biodegradation	> 60 % (6d, OECD TG 301B)

(R)-p-mentha-1,8-diene (D-Limonene) (5989-27-5)

Persistence and degradability	Not rapidly degradable
Biodegradation	72 – 83,4 % (OECD 301 B)

Citral (5392-40-5)

Persistence and degradability	Rapidly degradable
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2,6-di-tert-butyl-p-cresol (128-37-0)

Persistence and degradability	Not rapidly degradable
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(99-87-6)

Persistence and degradability	Not rapidly degradable
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METHYLCHLOROISOTHIAZOLINONE (26172-55-4)

Persistence and degradability	Rapidly degradable
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Terpenes (80-56-8)

Persistence and degradability	Not rapidly degradable
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2-Methyl-4-isothiazolin-3-one(MI) (2682-20-4)

Persistence and degradability	Rapidly degradable
Biodegradation	> 70 % (OECD 309)

Benzyl alcohol (100-51-6)

Persistence and degradability	Rapidly degradable
Biodegradation	> 90 % (OECD 301A, OECD 301C, OECD 301 D)

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

Persistence and degradability	Not rapidly degradable
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12.3. Bioaccumulative potential

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Bioaccumulative potential	Not established.
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Water (7732-18-5)	
Partition coefficient n-octanol/water (Log Kow)	-1,38
Alcohols, C12-14, ethoxylated (7EO) (68439-50-9)	
Partition coefficient n-octanol/water (Log Kow)	5,96
Sodium cumenesulfonate (15763-76-5)	
Partition coefficient n-octanol/water (Log Kow)	-1,5
(R)-p-mentha-1,8-diene (D-Limonene) (5989-27-5)	
Partition coefficient n-octanol/water (Log Kow)	4,38
Citral (5392-40-5)	
Partition coefficient n-octanol/water (Log Kow)	3,45
2,6-di-tert-butyl-p-cresol (128-37-0)	
Partition coefficient n-octanol/water (Log Pow)	4,17
Partition coefficient n-octanol/water (Log Kow)	5,1
(99-87-6)	
Partition coefficient n-octanol/water (Log Kow)	4,1
METHYLCHLOROISOTHIAZOLINONE (26172-55-4)	
Partition coefficient n-octanol/water (Log Pow)	0,401
Partition coefficient n-octanol/water (Log Kow)	0,401
Terpenes (80-56-8)	
Partition coefficient n-octanol/water (Log Pow)	4,32
Partition coefficient n-octanol/water (Log Kow)	4,44
2-Methyl-4-isothiazolin-3-one(MI) (2682-20-4)	
Bioconcentration factor (BCF REACH)	3,16
Partition coefficient n-octanol/water (Log Kow)	0,05 – ≤ 0,32 (OECD 117 LogKow (HPLC Method))
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.

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12.7. Other adverse effects

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Other information	Avoid release to the environment.
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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
14.1. UN number or ID number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Not applicable	Dangerous for the environment: No
No supplementary information available				

14.6. Special precautions for user

Overland transport

No data available

Transport by sea

No data available

Air transport

No data available

Inland waterway transport

Not applicable

Rail transport

No data available

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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

: METHYLCHLOROISOTHIAZOLINONE; METHYLISOTHIAZOLINONE

Detergent Regulation (EC 648/2004)

Labelling of contents	
Component	%
non-ionic surfactants, phosphates	<5%
BENZISOTHIAZOLINONE	
METHYLCHLOROISOTHIAZOLINONE	
METHYLISOTHIAZOLINONE	
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 substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

ANNEX II REPORTABLE EXPLOSIVES PRECURSORS

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List of substances on their own or in mixtures or in substances for which suspicious transactions and significant disappearances and thefts are to be reported within 24 hours.

Name	CAS-No.	Combined Nomenclature code (CN)	Combined Nomenclature code for mixture without constituents which would determine classification under another CN code
Sodium nitrate	7631-99-4	3102 50 00	ex 3824 99 96

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

Germany

Water hazard class (WGK) : WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1).
List of sensitizing substances (TRGS 907) : Contains sensitizing substances according TRGS 907.

Netherlands

ABM category : A(4) - low hazard for aquatic organisms, may have longterm hazardous effects in aquatic environment
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 – Vruchtbaarheid : None of the components are listed
SZW-lijst van reprotoxische stoffen – Ontwikkeling : Methyl salicylate is 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 ammended)

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
	Issue date	Modified
	SDS Ref.	Modified
	Revision date	Modified
	Supersedes	Modified
	Version	Modified Minor
1.1	Product form	Added
3	Composition/information on ingredients	Modified

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Indication of changes		
Section	Changed item	Comments
9	pH	Modified

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: Wassergefährdungskategorie (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

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Abbreviations and acronyms:

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
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. DISCLAIMER OF LIABILITY 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. 2 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 2
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
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
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

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Full text of H- and EUH-statements:	
Skin Sens. 1A	Skin sensitisation, category 1A
Skin Sens. 1B	Skin sensitisation, category 1B
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
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.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
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, METHYLCHLOROISOTHIAZOLINONE, METHYLISOTHIAZOLINONE. 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
PROC11	Non industrial spraying
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.