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

1.1. Product identifier

Product form	:	Mixture
Name	:	James Cleansoft
UFI	:	8U8R-RMH2-YE03-4UUG
Product code	:	4732.0_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; Manual application (Association ref code: AISE_SUMI_PW_19_1)	SU22, PC35, PROC19, 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)	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

Supplier
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

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 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 ≥ 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 %

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 propoxylated (Polymer) (INCI: PPG-5-LAURETH-5)	CAS-No.: 68439-51-0	5 – 10	Aquatic Chronic 3, H412
Propyleneglycol-n-propylether (INCI: PROPYLENE GLYCOL PROPYL ETHER)	CAS-No.: 1569-01-3 EC-No.: 216-372-4 REACH-no: 01-2119474443-37	1 – 5	Flam. Liq. 3, H226 Eye Irrit. 2, H319
Sodiumsec-alkane(C14-17)sulfonate (INCI: SODIUM C14-17 ALKYL SEC SULFONATE)	CAS-No.: 97489-15-1 EC-No.: 307-055-2 REACH-no: 01-2119489924-20	1 – 5	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 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
Fatty acids, coconut-oil, c12-18 and c18-unsatd. (INCI:)	CAS-No.: 90990-15-1 EC-No.: 292-776-4	1 – 5	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE Not classified Aquatic Chronic Not classified
2-Propanol (isopropylalcohol) (INCI: ISOPROPYL ALCOHOL) substance with national workplace exposure limit(s) (BE, BG, DK, DE, EE, FI, FR, GR, HU, IE, HR, LV, LT, NL, AT, PL, PT, RO, SI, SK, ES, CZ, GB, SE)	CAS-No.: 67-63-0 EC-No.: 200-661-7 EC Index-No.: 603-117-00-0 REACH-no: 01-2119457558-25	0,1 – 1	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Ethanol (INCI: ALCOHOL) substance with national workplace exposure limit(s) (BE, BG, DK, DE, EE, FI, FR, GR, HU, IE, HR, LV, LT, NL, AT, PL, PT, RO, SI, SK, ES, CZ, GB, SE)	CAS-No.: 64-17-5 EC-No.: 200-578-6 EC Index-No.: 603-002-00-5 REACH-no: 01-2119457610-43	0,1 – 1	Flam. Liq. 2, H225
Butanon (Ethyl methyl ketone) (INCI: MEK) substance with national workplace exposure limit(s) (BE, BG, DK, DE, EE, FI, FR, GR, HU, IE, IT, HR, LV, LT, LU, MT, NL, AT, PL, PT, SI, SK, ES, CZ, GB, SE); substance with a Community workplace exposure limit	CAS-No.: 78-93-3 EC-No.: 201-159-0 EC Index-No.: 606-002-00-3 REACH-no: 01-2119457290-43	< 0,1	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
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	Met. Corr. 1, H290 Skin Corr. 1, H314 Eye Dam. 1, H318

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
Dipentene (D,L-Limonene) (INCI: LIMONENE) substance with national workplace exposure limit(s) (LT)	CAS-No.: 138-86-3 EC-No.: 205-341-0 EC Index-No.: 601-029-00-7 REACH-no: 01-2120766421-57	< 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
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
Benzaldehyde (INCI: BENZALDEHYDE) substance with national workplace exposure limit(s) (BG, FI, HU, LV, LT)	CAS-No.: 100-52-7 EC-No.: 202-860-4 EC Index-No.: 605-012-00-5 REACH-no: 01-2119455540-44	< 0,1	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Eye Irrit. 2, H319 Repr. 2, H361 STOT SE 3, H335 Aquatic Chronic 2, H411

Specific concentration limits:

Name	Product identifier	Specific concentration limits (Conc. (% w/w))
Sodiumsec-alkane(C14-17)sulfonate (INCI: SODIUM C14-17 ALKYL SEC SULFONATE)	CAS-No.: 97489-15-1 EC-No.: 307-055-2 REACH-no: 01-2119489924-20	(10 ≤ C < 100) Skin Irrit. 2; H315 (10 ≤ C < 15) Eye Irrit. 2; H319 (15 ≤ C < 100) Eye Dam. 1; H318 (60 ≤ C < 100) Acute Tox. 4 (Oral); H302
Ethanol (INCI: ALCOHOL)	CAS-No.: 64-17-5 EC-No.: 200-578-6 EC Index-No.: 603-002-00-5 REACH-no: 01-2119457610-43	(50 ≤ C < 100) Eye Irrit. 2; H319
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

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. May cause an allergic skin reaction. Itching. Redness.

Symptoms/effects after eye contact : Causes serious eye irritation. Blurred vision. Burning sensation. Tears. Redness.

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.

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 : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : 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.

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/m³

Alcohols (67-63-0)	
Austria - Occupational Exposure Limits	
Local name	2-Propanol Kurzzeitwert für Großguss
MAK (OEL TWA)	500 mg/m³
	200 ppm
MAK (OEL STEL)	2000 mg/m³
	800 ppm
Regulatory reference	BGBl. II Nr. 186/2015
Belgium - Occupational Exposure Limits	
Local name	Alcool isopropylique # Isopropylalcohol
OEL TWA	500 mg/m³
	200 ppm
OEL STEL	1000 mg/m³
	400 ppm
Regulatory reference	Koninklijk besluit/Arrêté royal 11/03/2002
Bulgaria - Occupational Exposure Limits	
Local name	Изопропилов алкохол
OEL TWA	980 mg/m³
OEL STEL	1225 mg/m³
Regulatory reference	Наредба № 13 от 30.12.2003 г. за защита на работещите от рискове, свързани с експозиция на химични агенти при работа
Croatia - Occupational Exposure Limits	
Local name	Propan-2-ol; (izopropil-alkohol; izopropanol)
GVI (OEL TWA)	999 mg/m³
	400 ppm
KGVI (OEL STEL)	1250 mg/m³
	500 ppm
Remark	F (lako zapaljivo); Xi (nadražujuće)
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)
Czech Republic - Occupational Exposure Limits	
Local name	iso-Propanol (2-Propanol; iso-Propylalkohol)
PEL (OEL TWA)	500 mg/m³
	204 ppm
NPK-P (OEL C)	1000 mg/m³
	410 ppm
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (zapracovány změny č. 93/2012 Sb., 9/2013 Sb.)
Denmark - Occupational Exposure Limits	
Local name	Isopropylalkohol (Isopropanol; 2-Propanol; sec-Propylalkohol)
OEL TWA	490 mg/m³

Alcohols (67-63-0)	
	200 ppm
Regulatory reference	BEK nr 986 af 11/10/2012
Estonia - Occupational Exposure Limits	
Local name	2-propanool (isopropüülalkohol, isopropanool)
OEL TWA	350 mg/m³
	150 ppm
OEL STEL	600 mg/m³
	250 ppm
Regulatory reference	Vabariigi Valitsuse 18. septembri 2001. a määruse nr 293
Finland - Occupational Exposure Limits	
Local name	2-Propanoli
HTP (OEL TWA)	500 mg/m³
	200 ppm
HTP (OEL STEL)	620 mg/m³
	250 ppm
Regulatory reference	HTP-ARVOT 2016 (Sosiaali- ja terveysministeriö)
France - Occupational Exposure Limits	
Local name	Alcool isopropylique
VLEP CT (OEL STEL)	980 mg/m³
	400 ppm
Remark	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
Germany - Occupational Exposure Limits (TRGS 900)	
Local name	Propan-2-ol
AGW (OEL TWA)	500 mg/m³
	200 ppm
AGW (OEL C)	1000 mg/m³
Remark	DFG;Y
Regulatory reference	TRGS900
Greece - Occupational Exposure Limits	
OEL TWA	980 mg/m³
	400 ppm
OEL STEL	1225 mg/m³
	500 ppm
Hungary - Occupational Exposure Limits	
Local name	IZOPROPIL-ALKOHOL
AK (OEL TWA)	500 mg/m³
CK (OEL STEL)	2000 mg/m³

Alcohols (67-63-0)	
Ireland - Occupational Exposure Limits	
Local name	Isopropyl alcohol
OEL TWA	200 ppm
OEL STEL	400 ppm
Regulatory reference	Code of Practice for the Chemical Agents Regulations 2016
Latvia - Occupational Exposure Limits	
Local name	Izopropanols (2-propanols, izopropilspirts,1-metil-1-etanols)
OEL TWA	350 mg/m³
OEL STEL	600 mg/m³
Regulatory reference	Ministru kabineta 2007.gada 15.maija noteikumiem Nr.325
Lithuania - Occupational Exposure Limits	
Local name	2-propanolis (izopropanolis, izopropilo alkoholis)
IPRV (OEL TWA)	350 mg/m³
	150 ppm
TPRV (OEL STEL)	600 mg/m³
	250 ppm
Regulatory reference	LIETUVOS HIGIENOS NORMA HN 23:2011
Netherlands - Occupational Exposure Limits	
TGG-8u (OEL TWA)	650 mg/m³
TGG-15min (OEL STEL)	0 mg/m³
Poland - Occupational Exposure Limits	
Local name	Propan-2-ol (izopropylowy alkohol)
NDS (OEL TWA)	900 mg/m³
NDSCh (OEL STEL)	1200 mg/m³
Regulatory reference	Dz.U. 2014 poz. 817
Portugal - Occupational Exposure Limits	
Local name	2-Propanol (isopropanol ou álcool isopropílico)
OEL TWA	200 ppm
OEL STEL	400 ppm
Regulatory reference	Norma Portuguesa NP 1796:2014
Romania - Occupational Exposure Limits	
Local name	Alcool izopropilic
OEL TWA	200 mg/m³
	81 ppm
OEL STEL	500 mg/m³
	203 ppm
Regulatory reference	Legea 319/2006 privind Securitatea şi sănătatea în muncă şi HG nr. 1/2012 de modificare şi completare a HG 1218/2006

Alcohols (67-63-0)	
Slovakia - Occupational Exposure Limits	
Local name	Izopropylalkohol (propán-2-ol)
NPHV (OEL TWA)	500 mg/m³
	200 ppm
NPHV (OEL STEL)	1000 mg/m³
	400 ppm
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z.
Slovenia - Occupational Exposure Limits	
Local name	propan-2-ol (izopropilalkohol; izopropanol)
OEL TWA	500 mg/m³
	200 ppm
OEL STEL	2000 mg/m³
	800 ppm
KTV	4
Regulatory reference	Uradni list RS, št. 102/2010 z dne 17.12.2010
Spain - Occupational Exposure Limits	
Local name	Isopropanol (Alcohol isopropílico)
VLA-ED (OEL TWA)	500 mg/m³
	200 ppm
VLA-EC (OEL STEL)	1000 mg/m³
	400 ppm
Remark	VLB® (Agente químico que tiene Valor Límite Biológico), s (Esta sustancia tiene prohibida total o parcialmente su comercialización y uso como fitosanitario y/o como biocida. Para una información detallada acerca de las prohibiciones consúltese: Base de datos de productos biocidas: http://www.msssi.gob.es/ciudadanos/productos.do?tipo=plaguicidas Base de datos de productos fitosanitarios http://www.magrama.gob.es/agricultura/pags/fitos/registro/fichas/pdf/Lista_sa.pdf).
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2017. INSHT
Sweden - Occupational Exposure Limits	
Local name	Isopropanol
NGV (OEL TWA)	350 mg/m³
	150 ppm
KGV (OEL STEL)	600 mg/m³
	250 ppm
Regulatory reference	Hygieniska gränsvärden (AFS 2015:7)
United Kingdom - Occupational Exposure Limits	
Local name	Propan-2-ol
WEL TWA (OEL TWA)	999 mg/m³
	400 ppm
WEL STEL (OEL STEL)	1250 mg/m³

Alcohols (67-63-0)	
	500 ppm
Regulatory reference	EH40. HSE
Norway - Occupational Exposure Limits	
Local name	2-propanol (Isopropanol)
Grenseverdi (OEL TWA)	245 mg/m³
	100 ppm
Regulatory reference	Arbeidstilsynet. Forskrift, best.nr. 704
Switzerland - Occupational Exposure Limits	
Local name	Isopropanol (s. 2-Propanol)
MAK (OEL TWA)	500 mg/m³ 500 mg/m³ 500 mg/m³ 500 mg/m³
	200 ppm 200 ppm 200 ppm 200 ppm
KZGW (OEL STEL)	1000 mg/m³ 1000 mg/m³ 1000 mg/m³ 1000 mg/m³
	400 ppm 400 ppm 400 ppm 400 ppm
Remark	B SS_C - Auge & OAW, ZNS, $Leber^{KT\ AN}$ - INRS, NIOSH

(64-17-5)	
Austria - Occupational Exposure Limits	
Local name	Ethanol
MAK (OEL TWA)	1900 mg/m³
	1000 ppm
MAK (OEL STEL)	3800 mg/m³
	2000 ppm
Regulatory reference	BGBl. II Nr. 186/2015
Belgium - Occupational Exposure Limits	
Local name	Alcool éthylique # Ethanol
OEL TWA	1907 mg/m³
	1000 ppm
Regulatory reference	Koninklijk besluit/Arrêté royal 11/03/2002
Bulgaria - Occupational Exposure Limits	
Local name	Етилов алкохол
OEL TWA	1000 mg/m³

(64-17-5)	
Regulatory reference	Наредба № 13 от 30.12.2003 г. за защита на работещите от рискове, свързани с експозиция на химични агенти при работа
Croatia - Occupational Exposure Limits	
Local name	Etanol; (Etil-alkohol)
GVI (OEL TWA)	1900 mg/m³
	1000 ppm
Remark	F (lako zapaljivo)
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)
Czech Republic - Occupational Exposure Limits	
Local name	Ethanol (Ethylalkohol)
PEL (OEL TWA)	1000 mg/m³
	530 ppm
NPK-P (OEL C)	3000 mg/m³
	1600 ppm
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (zapracovány změny č. 93/2012 Sb., 9/2013 Sb.)
Denmark - Occupational Exposure Limits	
Local name	Ethanol (Ethylalkohol)
OEL TWA	1900 mg/m³
	1000 ppm
Regulatory reference	BEK nr 986 af 11/10/2012
Estonia - Occupational Exposure Limits	
Local name	Etanool (etüülalkohol)
OEL TWA	1000 mg/m³
	500 ppm
OEL STEL	1900 mg/m³
	1000 ppm
Regulatory reference	Vabariigi Valitsuse 18. septembri 2001. a määruse nr 293
Finland - Occupational Exposure Limits	
Local name	Etanoli
HTP (OEL TWA)	1900 mg/m³
	1000 ppm
HTP (OEL STEL)	2500 mg/m³
	1300 ppm
Regulatory reference	HTP-ARVOT 2016 (Sosiaali- ja terveysministeriö)
France - Occupational Exposure Limits	
Local name	Alcool éthylique
VLEP 8h (OEL TWA)	1900 mg/m³
	1000 ppm

(64-17-5)	
VLEP CT (OEL STEL)	9500 mg/m³
	5000 ppm
Remark	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
Germany - Occupational Exposure Limits (TRGS 900)	
Local name	Ethanol
AGW (OEL TWA)	960 mg/m³
	500 ppm
Remark	DFG;Y
Regulatory reference	TRGS900
Greece - Occupational Exposure Limits	
OEL TWA	1900 mg/m³
	1000 ppm
Hungary - Occupational Exposure Limits	
Local name	ETIL-ALKOHOL
AK (OEL TWA)	1900 mg/m³
CK (OEL STEL)	7600 mg/m³
Ireland - Occupational Exposure Limits	
Local name	Ethanol
OEL STEL	1000 ppm
Regulatory reference	Code of Practice for the Chemical Agents Regulations 2016
Latvia - Occupational Exposure Limits	
Local name	Etilspirts (etanols)
OEL TWA	1000 mg/m³
Regulatory reference	Ministru kabineta 2007.gada 15.maija noteikumiem Nr.325
Lithuania - Occupational Exposure Limits	
Local name	Etanolis (etilo alkoholis)
IPRV (OEL TWA)	1000 mg/m³
	500 ppm
TPRV (OEL STEL)	1900 mg/m³
	1000 ppm
Regulatory reference	LIETUVOS HIGIENOS NORMA HN 23:2011
Netherlands - Occupational Exposure Limits	
Local name	Ethanol
TGG-8u (OEL TWA)	260 mg/m³
TGG-15min (OEL STEL)	1900 mg/m³

(64-17-5)	
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 Haanduiding. Bij deze stoffen moeten naast maatregelen tegen inademing ook adequate maatregelen ter voorkoming van huidcontact worden genomen.
Regulatory reference	Arbeidsomstandighedenregeling 2017
Poland - Occupational Exposure Limits	
Local name	Etanol (alkohol etylowy)
NDS (OEL TWA)	1900 mg/m³
Regulatory reference	Dz.U. 2014 poz. 817
Portugal - Occupational Exposure Limits	
Local name	Etanol (Álcool etílico)
OEL TWA	1000 ppm
OEL STEL	1000 ppm
Regulatory reference	Norma Portuguesa NP 1796:2014
Romania - Occupational Exposure Limits	
Local name	Alcool etilic
OEL TWA	1900 mg/m³
	1000 ppm
OEL STEL	9500 mg/m³
	5000 ppm
Regulatory reference	Legea 319/2006 privind Securitatea şi sănătatea în muncă şi HG nr. 1/2012 de modificare şi completare a HG 1218/2006
Slovakia - Occupational Exposure Limits	
Local name	Etylalkohol (etanol)
NPHV (OEL TWA)	960 mg/m³
	500 ppm
NPHV (OEL STEL)	1920 mg/m³
	1000 ppm
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z.
Slovenia - Occupational Exposure Limits	
Local name	etanol (etilalkohol)
OEL TWA	1900 mg/m³
	1000 ppm
OEL STEL	7600 mg/m³
	4000 ppm
KTV	4
Regulatory reference	Uradni list RS, št. 102/2010 z dne 17.12.2010
Spain - Occupational Exposure Limits	
Local name	Etanol (Alcohol etílico)
VLA-EC (OEL STEL)	1910 mg/m³

(64-17-5)	
	1000 ppm
Remark	s (Esta sustancia tiene prohibida total o parcialmente su comercialización y uso como fitosanitario y/o como biocida. Para una información detallada acerca de las prohibiciones consúltese: Base de datos de productos biocidas: http://www.msssi.gob.es/ciudadanos/productos.do?tipo=plaguicidas Base de datos de productos fitosanitarios http://www.magrama.gob.es/agricultura/pags/fitos/registro/fichas/pdf/Lista_sa.pdf).
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2017. INSHT
Sweden - Occupational Exposure Limits	
Local name	Etanol
NGV (OEL TWA)	1000 mg/m³
	500 ppm
KGV (OEL STEL)	1900 mg/m³
	1000 ppm
Regulatory reference	Hygieniska gränsvärden (AFS 2015:7)
United Kingdom - Occupational Exposure Limits	
Local name	Ethanol
WEL TWA (OEL TWA)	1920 mg/m³
	1000 ppm
Regulatory reference	EH40. HSE
Iceland - Occupational Exposure Limits	
Local name	Etanól (etýlalkóhól)
OEL TWA	1900 mg/m³
	1000 ppm
Regulatory reference	Reglugerð um mengunarmörk og aðgerðir til að draga úr mengun á vinnustöðum (Nr. 390/2009)
Norway - Occupational Exposure Limits	
Local name	Etanol
Grenseverdi (OEL TWA)	950 mg/m³
	500 ppm
Regulatory reference	Arbeidstilsynet. Forskrift, best.nr. 704
Switzerland - Occupational Exposure Limits	
Local name	Ethanol
MAK (OEL TWA)	960 mg/m³ 960 mg/m³
	500 ppm 500 ppm
KZGW (OEL STEL)	1920 mg/m³ 1920 mg/m³
	1000 ppm 1000 ppm
Remark	SS_C - OAW, Formal$^{KT\ HU}$ - INRS, NIOSH

Butanon (Ethyl methyl ketone) (78-93-3)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Butanone
IOEL TWA	600 mg/m³
	200 ppm
IOEL STEL	900 mg/m³
	300 ppm
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
Austria - Occupational Exposure Limits	
Local name	Butanon
MAK (OEL TWA)	295 mg/m³
	100 ppm
MAK (OEL STEL)	590 mg/m³
	200 ppm
Remark	H
Regulatory reference	BGBl. II Nr. 186/2015
Belgium - Occupational Exposure Limits	
Local name	2-Butanone # 2-Butanon
OEL TWA	600 mg/m³
	200 ppm
OEL STEL	900 mg/m³
	300 ppm
Regulatory reference	Koninklijk besluit/Arrêté royal 11/03/2002
Bulgaria - Occupational Exposure Limits	
Local name	Метилетилкетон (бутанон)
OEL TWA	590 mg/m³
OEL STEL	885 mg/m³
Remark	• (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
Croatia - Occupational Exposure Limits	
Local name	Butanon (metil-etil-keton)
GVI (OEL TWA)	600 mg/m³
	200 ppm
KGVI (OEL STEL)	900 mg/m³
	300 ppm
Remark	K (Skin): (naznaka da tvar može štetno djelovati kroz kožu); F (lako zapaljivo); Xi (nadražujuće); EU* (naznaka da se radi o tvarima za koje su utvrđene indikativne granične vrijednosti izloženosti prema Direktivi 2000/39/ EC (prva lista))

Butanon (Ethyl methyl ketone) (78-93-3)	
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)
Czech Republic - Occupational Exposure Limits	
Local name	2-Butanon (Methylethylketon)
PEL (OEL TWA)	600 mg/m³
	203 ppm
NPK-P (OEL C)	900 mg/m³
	305 ppm
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (zapracovány změny č. 93/2012 Sb., 9/2013 Sb.)
Denmark - Occupational Exposure Limits	
Local name	Butanon (Ethylmethylketon; MEK; Methylethylketon)
OEL TWA	145 mg/m³
	50 ppm
Regulatory reference	BEK nr 986 af 11/10/2012
Estonia - Occupational Exposure Limits	
Local name	2-butanoon
OEL TWA	600 mg/m³
	200 ppm
OEL STEL	900 mg/m³
	300 ppm
Regulatory reference	Vabariigi Valitsuse 18. septembri 2001. a määruse nr 293
Finland - Occupational Exposure Limits	
Local name	2-Butanoni
HTP (OEL STEL)	300 mg/m³
	100 ppm
Regulatory reference	HTP-ARVOT 2016 (Sosiaali- ja terveysministeriö)
France - Occupational Exposure Limits	
Local name	Méthyléthylcétone, 2-Butanone
VLEP 8h (OEL TWA)	600 mg/m³
	200 ppm
VLEP CT (OEL STEL)	900 mg/m³
	300 ppm
Remark	Valeurs règlementaires contraignantes; risque de pénétration percutanée
Regulatory reference	Article R4412-149 du Code du travail (réf.: INRS ED 984, 2016)
Germany - Occupational Exposure Limits (TRGS 900)	
Local name	Butanon
AGW (OEL TWA)	600 mg/m³
	200 ppm
Remark	DFG;EU;H;Y

Butanon (Ethyl methyl ketone) (78-93-3)	
Regulatory reference	TRGS900
Greece - Occupational Exposure Limits	
OEL TWA	600 mg/m³
	200 ppm
OEL STEL	900 mg/m³
	300 ppm
Hungary - Occupational Exposure Limits	
Local name	METIL-ETIL-KETON
AK (OEL TWA)	600 mg/m³
CK (OEL STEL)	900 mg/m³
Ireland - Occupational Exposure Limits	
Local name	Methyl ethyl ketone (MEK)
OEL TWA	600 mg/m³
	200 ppm
OEL STEL	900 mg/m³
	300 ppm
Regulatory reference	Code of Practice for the Chemical Agents Regulations 2016
Italy - Occupational Exposure Limits	
Local name	Butanone
OEL TWA	600 mg/m³
	200 ppm
OEL STEL	900 mg/m³
	300 ppm
Regulatory reference	Allegato XXXVIII del D.Lgs. 9 aprile 2008, n. 81 e s.m.i.
Latvia - Occupational Exposure Limits	
Local name	2-Butanons (metiletilketons, etilmetilketons)
OEL TWA	200 mg/m³
	67 ppm
OEL STEL	900 mg/m³
	300 ppm
Regulatory reference	Ministru kabineta 2007.gada 15.maija noteikumiem Nr.325
Lithuania - Occupational Exposure Limits	
Local name	Butanonas (Metiletilketonas) (MEK)
IPRV (OEL TWA)	600 mg/m³
	200 ppm
TPRV (OEL STEL)	900 mg/m³
	300 ppm
Regulatory reference	LIETUVOS HIGIENOS NORMA HN 23:2011

Butanon (Ethyl methyl ketone) (78-93-3)	
Luxembourg - Occupational Exposure Limits	
Local name	Butanone
OEL TWA	600 mg/m³
	200 ppm
OEL STEL	900 mg/m³
	300 ppm
Regulatory reference	Mémorial A Nº 235
Malta - Occupational Exposure Limits	
Local name	Butanone
OEL TWA	600 mg/m³
	200 ppm
OEL STEL	900 mg/m³
	300 ppm
Regulatory reference	S.L.424.24
Netherlands - Occupational Exposure Limits	
Local name	2-Butanon
TGG-8u (OEL TWA)	590 mg/m³
TGG-15min (OEL STEL)	900 mg/m³
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 Haanduiding. Bij deze stoffen moeten naast maatregelen tegen inademing ook adequate maatregelen ter voorkoming van huidcontact worden genomen.
Regulatory reference	Arbeidsomstandighedenregeling 2017
Poland - Occupational Exposure Limits	
Local name	Butan-2-on
NDS (OEL TWA)	450 mg/m³
NDSCh (OEL STEL)	900 mg/m³
Regulatory reference	Dz.U. 2014 poz. 817
Portugal - Occupational Exposure Limits	
Local name	Metiletilcetona (MEK) (2-Butanona)
OEL TWA	200 ppm
OEL STEL	300 ppm
Regulatory reference	Norma Portuguesa NP 1796:2014
Slovakia - Occupational Exposure Limits	
Local name	Butanón (etylmetylketón)
NPHV (OEL TWA)	600 mg/m³
	200 ppm
NPHV (OEL STEL)	900 mg/m³
	300 ppm

Butanon (Ethyl methyl ketone) (78-93-3)	
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z.
Slovenia - Occupational Exposure Limits	
Local name	butanol (etilmetilketon)
OEL TWA	600 mg/m³
	200 ppm
OEL STEL	900 mg/m³
	300 ppm
KTV	1,5
Regulatory reference	Uradni list RS, št. 102/2010 z dne 17.12.2010
Spain - Occupational Exposure Limits	
Local name	Metiletilcetona (Butanona)
VLA-ED (OEL TWA)	600 mg/m³
	200 ppm
VLA-EC (OEL STEL)	900 mg/m³
	300 ppm
Remark	VLB® (Agente químico que tiene Valor Límite Biológico), 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 2017. INSHT
Sweden - Occupational Exposure Limits	
Local name	Metyletylketon (MEK)
NGV (OEL TWA)	150 mg/m³
	50 ppm
KGV (OEL STEL)	900 mg/m³
	300 ppm
Regulatory reference	Hygieniska gränsvärden (AFS 2015:7)
United Kingdom - Occupational Exposure Limits	
Local name	Butan-2-one (methyl ethyl ketone)
WEL TWA (OEL TWA)	600 mg/m³
	200 ppm
WEL STEL (OEL STEL)	899 mg/m³
	300 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), BMGV (Biological monitoring guidance values are listed in Table 2)
Regulatory reference	EH40. HSE
Norway - Occupational Exposure Limits	
Local name	Butanon (Metyletylketon)
Grenseverdi (OEL TWA)	220 mg/m³
	75 ppm

Butanon (Ethyl methyl ketone) (78-93-3)	
Regulatory reference	Arbeidstilsynet. Forskrift, best.nr. 704
Switzerland - Occupational Exposure Limits	
Local name	2-Butanon
MAK (OEL TWA)	590 mg/m³ 590 mg/m³ 590 mg/m³
	200 ppm 200 ppm 200 ppm
KZGW (OEL STEL)	590 mg/m³ 590 mg/m³ 590 mg/m³
	200 ppm 200 ppm 200 ppm
Remark	H B SS_C - NS, $OAW^{KT\ HU}$ - INRS, NIOSH, OSHA

Sodium hydroxide (1310-73-2)	
Austria - Occupational Exposure Limits	
Local name	Natriumhydroxid
MAK (OEL TWA)	2 mg/m³
MAK (OEL STEL)	4 mg/m³
Regulatory reference	BGBl. II Nr. 186/2015
Belgium - Occupational Exposure Limits	
Local name	Sodium (hydroxyde de) # Natriumhydroxide
OEL TWA	2 mg/m³
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
Bulgaria - Occupational Exposure Limits	
Local name	Натриева основа
OEL TWA	2 mg/m³ 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
Croatia - Occupational Exposure Limits	
Local name	Natrijev hidroksid; (kaustična soda)
KGVI (OEL STEL)	2 mg/m³

Sodium hydroxide (1310-73-2)	
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)
Czech Republic - Occupational Exposure Limits	
Local name	Hydroxid sodný
PEL (OEL TWA)	1 mg/m³
NPK-P (OEL C)	2 mg/m³
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (zapracovány změny č. 93/2012 Sb., 9/2013 Sb.)
Denmark - Occupational Exposure Limits	
Local name	Natriumhydroxid
OEL TWA	2 mg/m³
Regulatory reference	BEK nr 986 af 11/10/2012
Estonia - Occupational Exposure Limits	
Local name	Naatriumhüdroksiid
OEL TWA	1 mg/m³
OEL STEL	2 mg/m³
Regulatory reference	Vabariigi Valitsuse 18. septembri 2001. a määruse nr 293
Finland - Occupational Exposure Limits	
Local name	Natriumhydroksidi
HTP (OEL STEL)	2 mg/m³ kattoarvo
Regulatory reference	HTP-ARVOT 2016 (Sosiaali- ja terveysministeriö)
France - Occupational Exposure Limits	
Local name	Sodium (hydroxyde de)
VLEP 8h (OEL TWA)	2 mg/m³
Remark	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
Greece - Occupational Exposure Limits	
OEL TWA	2 mg/m³
OEL STEL	2 mg/m³
Hungary - Occupational Exposure Limits	
Local name	NÁTRIUM-HIDROXID
AK (OEL TWA)	2 mg/m³
CK (OEL STEL)	2 mg/m³
Ireland - Occupational Exposure Limits	
Local name	Sodium hydroxide
OEL STEL	2 mg/m³
Regulatory reference	Code of Practice for the Chemical Agents Regulations 2016
Latvia - Occupational Exposure Limits	
Local name	Nātrijahidroksīds (nātrijasārms, kaustiskāsoda)

Sodium hydroxide (1310-73-2)	
OEL TWA	0,5 mg/m³
Regulatory reference	Ministru kabineta 2007.gada 15.maija noteikumiem Nr.325
Lithuania - Occupational Exposure Limits	
Local name	Natrio hidroksidas
NRV (OEL C)	2 mg/m³
Regulatory reference	LIETUVOS HIGIENOS NORMA HN 23:2011
Poland - Occupational Exposure Limits	
Local name	Wodorotlenek sodu
NDS (OEL TWA)	0,5 mg/m³
NDSCh (OEL STEL)	1 mg/m³
Regulatory reference	Dz.U. 2014 poz. 817
Portugal - Occupational Exposure Limits	
Local name	Hidróxido de sódio
OEL C	2 mg/m³
	2 ppm
Regulatory reference	Norma Portuguesa NP 1796:2014
Romania - Occupational Exposure Limits	
Local name	Hidroxizi alcalini exprimati în hidroxid de sodium
OEL TWA	1 mg/m³
OEL STEL	3 mg/m³
Regulatory reference	Legea 319/2006 privind Securitatea şi sănătatea în muncă şi HG nr. 1/2012 de modificare şi completare a HG 1218/2006
Slovakia - Occupational Exposure Limits	
Local name	Hydroxid sodný
NPHV (OEL TWA)	2 mg/m³
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z.
Slovenia - Occupational Exposure Limits	
Local name	natrijev hidroksid
OEL TWA	2 mg/m³
OEL STEL	2 mg/m³
KTV	1
Regulatory reference	Uradni list RS, št. 102/2010 z dne 17.12.2010
Spain - Occupational Exposure Limits	
Local name	Hidróxido de sodio
VLA-EC (OEL STEL)	2 mg/m³
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2017. INSHT
Sweden - Occupational Exposure Limits	
Local name	Natriumhydroxid
NGV (OEL TWA)	1 mg/m³ inhalerbart damm

Sodium hydroxide (1310-73-2)	
KGV (OEL STEL)	2 mg/m³ inhalerbart damm
Regulatory reference	Hygieniska gränsvärden (AFS 2015:7)
United Kingdom - Occupational Exposure Limits	
Local name	Sodium hydroxide
WEL STEL (OEL STEL)	2 mg/m³
Regulatory reference	EH40. HSE
Iceland - Occupational Exposure Limits	
Local name	Natríumhýdroxíð (vítissóti)
OEL STEL	2 mg/m³
Regulatory reference	Reglugerð um mengunarmörk og aðgerðir til að draga úr mengun á vinnustöðum (Nr. 390/2009)
Norway - Occupational Exposure Limits	
Local name	Natriumhydroksid
Grenseverdi (OEL TWA)	2 mg/m³
Takverdi (OEL C)	2 mg/m³
Regulatory reference	Arbeidstilsynet. Forskrift, best.nr. 704
Switzerland - Occupational Exposure Limits	
Local name	Aetznatron (s. Natriumhydroxid)
MAK (OEL TWA)	2 mg/m³ 2 mg/m³
KZGW (OEL STEL)	2 mg/m³ 2 mg/m³
Remark	e(mg/m^3) - SS_C - Haut , OAW^{KT} & $Auge^{KT}$ - NIOSH, OSHA

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/m³
Remark	Sh,H
Regulatory reference	BGBl. II Nr. 186/2015
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL C)	0,2 mg/m³
Slovenia - Occupational Exposure Limits	
Local name	5-kloro-2-metil-2,3-dihidro-izotiazol-3-on in
OEL TWA	0,05 mg/m³
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/m³

METHYLCHLOROISOTHIAZOLINONE (26172-55-4)	
KZGW (OEL STEL)	0,4 mg/m³
Remark	e(mg/m^3) - S SS_C - Haut, Auge, $OAW^{KT\ AN}$
Regulatory reference	SUVA - Grenzwerte am Arbeitsplatz 2016

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/m³
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/m³
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/m³
KZGW (OEL STEL)	0,4 mg/m³
Remark	e(mg/m^3) - S SS_C - 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/m³
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/m³
	9 ppm
NPK-P (OEL C)	80 mg/m³
	18,1 ppm
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (zapracovány změny č. 93/2012 Sb., 9/2013 Sb.)
Finland - Occupational Exposure Limits	
Local name	Bentsyylialkoholi
HTP (OEL TWA)	45 mg/m³
	10 ppm
Regulatory reference	HTP-ARVOT 2016 (Sosiaali- ja terveysministeriö)

Benzyl alcohol (100-51-6)	
Latvia - Occupational Exposure Limits	
Local name	Benzilspirts (fenilmetanols, fenilkarbinols)
OEL TWA	5 mg/m³
Regulatory reference	Ministru kabineta 2007.gada 15.maija noteikumiem Nr.325
Lithuania - Occupational Exposure Limits	
Local name	Benzilo alkoholis
IPRV (OEL TWA)	5 mg/m³
Regulatory reference	LIETUVOS HIGIENOS NORMA HN 23:2011
Poland - Occupational Exposure Limits	
Local name	Fenylometanol
NDS (OEL TWA)	240 mg/m³
Regulatory reference	Dz.U. 2014 poz. 817

Dipentene (138-86-3)	
Lithuania - Occupational Exposure Limits	
Local name	Limonenas (plg. terpenai)
IPRV (OEL TWA)	150 mg/m³
	25 ppm
TPRV (OEL STEL)	300 mg/m³
	50 ppm
Remark	J (jautrinantis poveikis); 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)
Norway - Occupational Exposure Limits	
Local name	Dipenten (Limonen)
Grenseverdi (OEL TWA)	140 mg/m³
	25 ppm
Remark	A: Kjemikalier som skal betraktes som at de fremkaller allergi eller annen overfølsomhet i øynene eller luftveier, eller som skal betraktes som at de fremkaller allergi ved hudkontakt.
Regulatory reference	FOR-2024-04-05-581

benzaldehyde (100-52-7)	
Bulgaria - Occupational Exposure Limits	
Local name	Бензалдехид
OEL TWA	5 mg/m³
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.)
Finland - Occupational Exposure Limits	
Local name	Bentsaldehydi
HTP (OEL TWA)	4,4 mg/m³

benzaldehyde (100-52-7)	
	1 ppm
HTP (OEL C)	17,4 mg/m³
	4 ppm
Regulatory reference	HTP-ARVOT 2025 (Sosiaali- ja terveysministeriö)
Hungary - Occupational Exposure Limits	
Local name	BENZALDEHID
AK (OEL TWA)	5 mg/m³
CK (OEL STEL)	10 mg/m³
Remark	N (Irritáló anyagok, egyszerű fojtógázok, csekély egészségkárosító hatással bíró anyagok)
Regulatory reference	5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
Latvia - Occupational Exposure Limits	
Local name	Benzaldehīds
OEL TWA	5 mg/m³
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2024. gada 26. martā noteikumiem Nr. 191).
Lithuania - Occupational Exposure Limits	
Local name	Benzaldehidas
IPRV (OEL TWA)	5 mg/m³
Regulatory reference	LIETUVOS HIGIENOS NORMA HN 23:2011 (Nr. V-695/A1-272, 2018-06-12)

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

James Cleansoft	
DNEL/DMEL (additional information)	
See http	//www.dguv.de/ifa/de/gestis/limit_values/index.jsp: Information on ingredients.

Propyleneglycol-n-propylether (1569-01-3)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	2,2 – 52 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	26 – 147 mg/m³
DNEL/DMEL (General population)	
Long-term - systemic effects,oral	12,5 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	43 – 217 mg/m³
Long-term - systemic effects, dermal	9 – 22 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0,1 – 0,525 mg/l
PNEC aqua (marine water)	0,01 – 0,0525 mg/l

Propyleneglycol-n-propylether (1569-01-3)	
PNEC aqua (intermittent, freshwater)	1 – 5,25 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0,386 – 2,36 mg/kg dwt
PNEC sediment (marine water)	0,0386 – 0,236 mg/kg dwt
PNEC (Soil)	
PNEC soil	0,0185 – 0,16 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	4 – 10 mg/l

Alkylsulphonates (97489-15-1)	
DNEL/DMEL (Workers)	
Acute - local effects, dermal	2,8
Long-term - systemic effects, dermal	5 mg/kg bodyweight/day
Long-term - local effects, dermal	2,8
Long-term - systemic effects, inhalation	35 mg/m³
DNEL/DMEL (General population)	
Acute - local effects, dermal	2,8
Long-term - systemic effects,oral	7,1 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	12,4 mg/m³
Long-term - systemic effects, dermal	3,57 mg/kg bodyweight/day
Long-term - local effects, dermal	2,8
PNEC (Water)	
PNEC aqua (freshwater)	0,04 mg/l
PNEC aqua (marine water)	0,004 mg/l
PNEC aqua (intermittent, freshwater)	0,06 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	9,4 mg/kg dwt
PNEC sediment (marine water)	0,94 mg/kg dwt
PNEC (Soil)	
PNEC soil	9,4 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	600 mg/l

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/cm²
Long-term - systemic effects, inhalation	26,9 – 53,6 mg/m³
DNEL/DMEL (General population)	
Long-term - systemic effects,oral	3,8 mg/kg bodyweight/day

Sodium cumenesulfonate (15763-76-5)	
Long-term - systemic effects, inhalation	6,6 – 13,2 mg/m³
Long-term - systemic effects, dermal	3,8 – 68,1 mg/kg bodyweight/day
Long-term - local effects, dermal	0,048 mg/cm²
PNEC (Water)	
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
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

Acids (90990-15-1)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	10 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	17,632 mg/m³

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. Protect eyes, face and skin from liquid splashes. Hand protection. Gloves. 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. 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:
protective gloves. 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

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 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	:	light yellow. clear.
Odour	:	perfumed.
Odour threshold	:	Not available
Melting point	:	Not available
Freezing point	:	Not available
Boiling point	:	> 100
Flammability	:	Non flammable.
Lower explosion limit	:	Not available
Upper explosion limit	:	Not available
Flash point	:	> 60 °C
Auto-ignition temperature	:	Not available
Decomposition temperature	:	Not available
pH	:	6,1 (20°C)
Viscosity, kinematic	:	Not available
Solubility	:	completely soluble.
Partition coefficient n-octanol/water (Log Kow)	:	Not available
Vapour pressure	:	Not available
Vapour pressure at 50°C	:	Not available
Density	:	1,029 g/cm³ (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

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

(68439-51-0)	
LD50 oral rat	> 2000 mg/kg

Propyleneglycol-n-propylether (1569-01-3)	
LD50 oral rat	> 2000 mg/kg
LD50 oral	> 2000 mg/kg bodyweight
LD50 dermal rat	> 2000 mg/kg
LD50 dermal	3600 mg/kg bodyweight
LC50 Inhalation - Rat	8,34 mg/l/4h
LC50 Inhalation - Rat (Dust/Mist)	> 8462 mg/l

Alkylsulphonates (97489-15-1)	
LD50 oral rat	> 2000 mg/kg
LD50 oral	> 500 mg/kg bodyweight
LD50 dermal	> 2000 mg/kg (mouse)

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.)

Acids (90990-15-1)	
LD50 oral rat	> 2000 mg/kg
LD50 oral	> 5000 mg/kg (rat, OECD 401)
LD50 dermal rabbit	> 2000 mg/kg (OECD 434)

Alcohols (67-63-0)	
LD50 oral rat	4750 – 5840 mg/kg (OECD 401)
LD50 oral	4396 mg/kg bodyweight
LD50 dermal rat	13900 mg/kg (OECD 402)
LD50 dermal rabbit	> 2000 (≤ 13900) mg/kg
LD50 dermal	12800 mg/kg bodyweight
LC50 Inhalation - Rat	20 – ≤ 72,6 mg/l
LC50 Inhalation - Rat (Dust/Mist)	46600 mg/l/4h
LC50 Inhalation - Rat (Vapours)	30 mg/l/4h (>25 mg/l, 6h, OECD 403)

(64-17-5)	
LD50 oral rat	10470 – 13600 mg/kg (OECD 401)
LD50 dermal rabbit	> 2000 mg/kg (OECD 402)
LD50 dermal	15800 mg/kg bodyweight
LC50 Inhalation - Rat	51 – 124,7 mg/l/4h (OECD 403)
LC50 Inhalation - Rat (Dust/Mist)	> 99999 mg/l/4h

Butanon (Ethyl methyl ketone) (78-93-3)	
LD50 oral rat	2193 – 3460 mg/kg (OECD 423)
LD50 oral	2737 mg/kg bodyweight
LD50 dermal rabbit	> 5000 mg/kg (OECD 402)
LD50 dermal	6400 mg/kg bodyweight
LC50 Inhalation - Rat (Dust/Mist)	> 5000 mg/l/4h
LC50 Inhalation - Rat (Vapours)	34 mg/l/4h

Sodium hydroxide (1310-73-2)	
LD50 oral rat	> 500 mg/kg (Rabbit)

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/m³

2-Methyl-4-isothiazolin-3-one(MI) (2682-20-4)	
LD50 oral rat	120 – 285 mg/kg
LD50 dermal rat	> 2000 mg/kg

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

Dipentene (138-86-3)	
LD50 oral rat	5300 mg/kg

benzaldehyde (100-52-7)	
LD50 oral rat	1300 mg/kg
LD50 dermal rabbit	1250 mg/kg

Skin corrosion/irritation : Not classified
pH: 6,1 (20°C)

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

(68439-51-0)	
pH	≈ 6

Alcohols (67-63-0)	
pH	7

(64-17-5)	
pH	7 (20°C)

Butanon (Ethyl methyl ketone) (78-93-3)	
pH	7

Sodium hydroxide (1310-73-2)	
pH	> 14 (20°C)

Serious eye damage/irritation : Causes serious eye irritation.
pH: 6,1 (20°C)

(68439-51-0)	
pH	≈ 6

Alcohols (67-63-0)	
pH	7

(64-17-5)	
pH	7 (20°C)

Butanon (Ethyl methyl ketone) (78-93-3)	
pH	7

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

Acids (90990-15-1)	
NOAEL (oral, rat)	1000 mg/kg bodyweight (OECD 422)

Alcohols (67-63-0)	
STOT-single exposure	May cause drowsiness or dizziness.

Butanon (Ethyl methyl ketone) (78-93-3)	
STOT-single exposure	May cause drowsiness or dizziness.

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)

benzaldehyde (100-52-7)	
STOT-single exposure	May cause respiratory irritation.

STOT-repeated exposure : Not classified
Additional information : Based on available data, the classification criteria are not met

Alkylsulphonates (97489-15-1)	
NOAEL (oral, rat, 28 days)	200 mg/kg bodyweight/day

Alcohols (67-63-0)	
NOAEL (oral, rat, 90 days)	900 mg/kg bodyweight/day (90d, Rat, OECD 408)

(64-17-5)	
NOAEL (oral, rat, 90 days)	> 3000 mg/kg bodyweight/day (OECD 451)

Aspiration hazard : Not classified
Additional information : Based on available data, the classification criteria are not met

(68439-51-0)	
Viscosity, kinematic	53,305 – 53,533 mm²/s

Propyleneglycol-n-propylether (1569-01-3)	
Viscosity, kinematic	2,3 – 2,71 mm²/s

Alcohols (67-63-0)	
Viscosity, kinematic	2,66 mm²/s (25°C, ASTM D 7042)

Butanon (Ethyl methyl ketone) (78-93-3)	
Viscosity, kinematic	0,51 mm²/s (ASTM D 7042)

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.

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

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

(68439-51-0)	
LC50 - Fish [1]	> 1 – 10 mg/l (96h, Leuciscus idus)
EC50 - Crustacea [1]	> 1 – 10 mg/l (48h, Daphnia magna)
EC50 - Other aquatic organisms [1]	> 1 mg/l (literature data)
EC50 72h - Algae [1]	> 1 – 10 mg/l (72h, Desmodesmus subspicatus)

Propyleneglycol-n-propylether (1569-01-3)	
LC50 - Fish [1]	> 100 mg/l (96h, Oncorhynchus mykiss) | (560-1000 mg/; 96h, 560-1000 mg/l, Poecilia reticulata (Guppy) OECD 203)
EC50 - Crustacea [1]	> 100 mg/l (48h)
EC50 - Crustacea [2]	> 1000 mg/l (48h)
EC50 - Other aquatic organisms [1]	1,466 mg/l (Algae, 96h, Selenastrumcapricornutum)
EC50 - Other aquatic organisms [2]	1466 mg/l
EC50 72h - Algae [1]	> 1000 mg/l (96h, Pseudokirchneriella subcapitata)
NOEC chronic crustacea	560 mg/l (96h, Pseudokirchneriella subcapitata)

Alkylsulphonates (97489-15-1)	
LC50 - Fish [1]	1 – 10 mg/l (96h, Danio rerio)
EC50 - Crustacea [1]	9,81 mg/l (48h)
EC50 72h - Algae [1]	> 61 mg/l (72h, Scenedesmus subspicatus)
NOEC chronic fish	0,85 mg/l (28d,Oncorhynchus mykiss, OECD 204)

Alkylsulphonates (97489-15-1)	
NOEC chronic crustacea	0,36 mg/l (22d, Daphnia magna, OECD 202)
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
Acids (90990-15-1)	
LC50 - Fish [1]	5 mg/l (96h, OECD 203)
EC50 - Crustacea [1]	3,6 mg/l (48h, OECD 202)
Alcohols (67-63-0)	
LC50 - Fish [1]	4200 – 9640 mg/l (96h, Pimephales promelas))
LC50 - Fish [2]	> 100 mg/l (Leuciscus idus)
EC50 - Crustacea [1]	> 1000 mg/l (24h, Daphnia magna)
EC50 - Crustacea [2]	9714 mg/l (24h, Daphnia magna, OECD 202)
EC50 - Other aquatic organisms [1]	> 100 mg/l (Daphnia magna, 48h)
EC50 - Other aquatic organisms [2]	> 1000 mg/l IC50 algea (72 h) mg/l
EC50 72h - Algae [1]	> 1000 (≤ 1800) mg/l (Scenedesmus subspicatus)
EC50 72h - Algae [2]	> 100 mg/l (Scenedesmus subspicatus)
LOEC (acute)	1000 mg/l (Algae, 8d)
NOEC chronic crustacea	30 mg/l (21d, Daphnia magna, OECD211)
NOEC chronic algae	1000 mg/l (96h, Scenedesmus subspicatus, OECD201)
(64-17-5)	
LC50 - Fish [1]	14200 mg/l
LC50 - Fish [2]	> 100 mg/l (48h, Leuciscus idus)
EC50 - Crustacea [1]	12340 mg/l (48h)
EC50 - Other aquatic organisms [1]	5012 mg/l EC50 waterflea (48 h)
EC50 - Other aquatic organisms [2]	275 mg/l IC50 algea (72 h) mg/l
EC50 72h - Algae [1]	> 100 mg/l (72h, Selenastrum capricornutum)
EC50 72h - Algae [2]	275 mg/l
NOEC chronic crustacea	9,6 mg/l
Butanon (Ethyl methyl ketone) (78-93-3)	
LC50 - Fish [1]	2993 mg/l (96h, Pimephales promelas, OECD 203)
LC50 - Fish [2]	2993 (96h, Pimephales promelas, OECD 203)
EC50 - Crustacea [1]	308 mg/l
EC50 - Other aquatic organisms [1]	308 mg/l EC50 waterflea (48 h)

Butanon (Ethyl methyl ketone) (78-93-3)	
EC50 - Other aquatic organisms [2]	1972 mg/l IC50 algea (72 h) mg/l
EC50 72h - Algae [1]	1972 mg/l (Pseudokirchneriella subcapitata, OECD 201)

Sodium hydroxide (1310-73-2)	
LC50 - Fish [1]	33 – 189 mg/l (96h)
LC50 - Fish [2]	189 (48h, Leuciscus idus, OECD 203) | 125 mg/l (Gambusia affinis; 96 h) | 145 mg/l (Poecilia reticulata; 24 h)
LC50 - Other aquatic organisms [1]	45,5 mg/l (LC50, fish, Oncorhynchus mykiss)
EC50 - Crustacea [1]	33 – 450 (48h)
EC50 - Crustacea [2]	40,4 mg/l (48h, Ceriodaphnia sp.)
EC50 - Other aquatic organisms [1]	> 33 mg/l EC50 waterflea (48 h)

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 (Algea, 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 (Algea, 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

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, Algea, 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)

Benzyl alcohol (100-51-6)	
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 (Algea, 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
ErC50 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)

Dipentene (138-86-3)	
LC50 - Fish [1]	20,2 mg/l (96h, Pimephales promelas)
LC50 - Fish [2]	38,5 mg/l (96h)
EC50 - Crustacea [1]	28,2 mg/l (48h)
EC50 - Crustacea [2]	31 mg/l (LC50, 48h)
EC50 72h - Algae [1]	13,798 mg/l (IC50, 72h, Pseudokirchneriella subcapitata)

12.2. Persistence and degradability

James Cleansoft	
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.

Water (7732-18-5)	
Persistence and degradability	Rapidly degradable

(68439-51-0)	
Persistence and degradability	Rapidly degradable
Biodegradation	> 70 % (OECD 301A)

Propyleneglycol-n-propylether (1569-01-3)	
Persistence and degradability	Readily biodegradable.
Biodegradation	90 – 91,5 % (28d)

Alkylsulphonates (97489-15-1)	
Persistence and degradability	Rapidly degradable
Biodegradation	(>90%: OECD 302B; 78 %: OECD 301 B; 89 %: OECD 301E)

Sodium cumenesulfonate (15763-76-5)	
Persistence and degradability	Not rapidly degradable

Sodium cumenesulfonate (15763-76-5)	
Biodegradation	> 60 % (6d, OECD TG 301B)

Acids (90990-15-1)	
Persistence and degradability	Rapidly degradable

Alcohols (67-63-0)	
Persistence and degradability	Rapidly degradable
Biodegradation	95 % (28d, OECD301E)

(64-17-5)	
Persistence and degradability	Rapidly degradable
Biodegradation	89 % (14d, OECD301C)

Butanon (Ethyl methyl ketone) (78-93-3)	
Persistence and degradability	Rapidly degradable
Biodegradation	98 % (28d)

Sodium hydroxide (1310-73-2)	
Persistence and degradability	Rapidly degradable

METHYLCHLOROISOTHIAZOLINONE (26172-55-4)	
Persistence and degradability	Rapidly degradable

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)

Dipentene (138-86-3)	
Persistence and degradability	Not rapidly degradable

benzaldehyde (100-52-7)	
Persistence and degradability	Rapidly degradable

12.3. Bioaccumulative potential

James Cleansoft	
Bioaccumulative potential	Not established.

Water (7732-18-5)	
Partition coefficient n-octanol/water (Log Kow)	-1,38

(68439-51-0)	
Partition coefficient n-octanol/water (Log Kow)	5,96

Propyleneglycol-n-propylether (1569-01-3)	
Partition coefficient n-octanol/water (Log Pow)	0,62 – 1,2

Propyleneglycol-n-propylether (1569-01-3)	
Partition coefficient n-octanol/water (Log Kow)	0,49

Alkylsulphonates (97489-15-1)	
Partition coefficient n-octanol/water (Log Pow)	0,2
Partition coefficient n-octanol/water (Log Kow)	0,2

Sodium cumenesulfonate (15763-76-5)	
Partition coefficient n-octanol/water (Log Kow)	-1,5

Acids (90990-15-1)	
Partition coefficient n-octanol/water (Log Pow)	5

Alcohols (67-63-0)	
Partition coefficient n-octanol/water (Log Pow)	0,05
Partition coefficient n-octanol/water (Log Kow)	0,05

(64-17-5)	
Partition coefficient n-octanol/water (Log Pow)	-0,32
Partition coefficient n-octanol/water (Log Kow)	-0,3

Butanon (Ethyl methyl ketone) (78-93-3)	
Partition coefficient n-octanol/water (Log Pow)	0,3 Log P octanol/water (20°C) : 0,3 | (0,3; 40°C)
Partition coefficient n-octanol/water (Log Kow)	0,29

Sodium hydroxide (1310-73-2)	
Partition coefficient n-octanol/water (Log Kow)	-3,88

METHYLCHLOROISOTHIAZOLINONE (26172-55-4)	
Partition coefficient n-octanol/water (Log Pow)	0,401
Partition coefficient n-octanol/water (Log Kow)	0,401

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

Dipentene (138-86-3)	
Partition coefficient n-octanol/water (Log Kow)	4,38

benzaldehyde (100-52-7)	
Partition coefficient n-octanol/water (Log Kow)	1,48

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 Cleansoft	
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
14.1. UN number or ID number				
Not regulated for transport				
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	Dangerous for the environment: No	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
No data available

Rail transport
No data available

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	5-15%
anionic surfactants	<5%
METHYLCHLOROISOTHIAZOLINONE	
METHYLISOTHIAZOLINONE	
BENZISOTHIAZOLINONE	
perfumes	
ACETYLCEDRENE	
TERPINEOL	

Fragrance allergens > 0.01%:
ACETYLCEDRENE
TERPINEOL

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
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 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)

Name	CN designation	CAS-No.	CN code	Category, Subcategory	Threshold	Annex
Methylethylketone	Butanone	78-93-3	2914 12 00	Category 3		Annex I

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 dimethylacetamine; acetonitrile and propionitrile; pyridine; dimethylsulfone and dimethylsulfoxide

Germany

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

Netherlands

ABM category : B(3) - hazardous for aquatic organisms
SZW-lijst van kankerverwekkende stoffen : Ethanol,3-Methyl-5-(2,2,3-trimethyl-3-cyclopenten-1-yl)-4-penten-2-ol (& isomers) are listed
SZW-lijst van mutagene stoffen : 3-Methyl-5-(2,2,3-trimethyl-3-cyclopenten-1-yl)-4-penten-2-ol (& isomers) is listed
SZW-lijst van reprotoxische stoffen – Borstvoeding : Ethanol is listed
SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : Ethanol is listed
SZW-lijst van reprotoxische stoffen – Ontwikkeling : Ethanol 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.

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**
	Revision date	**Modified**
	Version	**Modified** Major
2.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	**Modified**
2.2	Precautionary statements (CLP)	**Modified**
2.2	Hazard statements (CLP)	**Modified**
3	Composition/information on ingredients	**Modified**

Abbreviations and acronyms:	
	ABM: Algemene Beoordelings Methodiek (NL) / ADR: Accord Européen relatif au transport international des marchandises dangereuses parroute) / 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-Konzentrazion (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: Prediceted 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 Bioacccumulative 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

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. 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 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
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
Aquatic Chronic Not classified	Hazardous to the aquatic environment – Chronic Hazard Not classified
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. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Met. Corr. 1	Corrosive to metals, Category 1
Repr. 2	Reproductive toxicity, Category 2
Skin Corr. 1	Skin corrosion/irritation, Category 1
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A

Full text of H- and EUH-statements:	
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. 1A	Skin sensitisation, category 1A
Skin Sens. 1B	Skin sensitisation, category 1B
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis
STOT SE Not classified	Specific target organ toxicity (single exposure) Not classified
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H290	May be corrosive to metals.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H312	Harmful 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.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361	Suspected of damaging fertility or the unborn child.
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 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
PROC19	Manual activities involving hand contact
PROC8b	Transfer of substance or mixture (charging and discharging) at dedicated facilities
SU21	Consumer uses: Private households (= general public = consumers)

Full text of use descriptors	
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.