

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

1.1. Product identifier

Product form	: Mixture
Name	: James Floor Cleaner Protect & Restore
UFI	: K334-YSHN-RN03-DV3D
Product code	: 7210.0_76068RV55
Type of product	: Detergent, Treated article (Biocide)
Product group	: Trade product

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

1.2.1. Relevant identified uses

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

Title	Use descriptors
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

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 BENZISOTHIAZOLINONE, METHYLCHLOROISOTHIAZOLINONE.

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
Fatty alcohol ethoxylate (2-Propylheptanol, ethoxylated (≥ 2.5 EO)) (INCI: C9-11 Pareth-(6-8))	CAS-No.: 160875-66-1	< 3	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318
Diethylene glycol monoethyl ether (INCI: ETHOXYDIGLYCOL) substance with national workplace exposure limit(s) (DE, NL, AT, SE)	CAS-No.: 111-90-0 EC-No.: 203-919-7 REACH-no: 01-2119475105-42	1 – 5	Flam. Liq. Not classified
Silicon Dioxide (INCI: SILICA) substance with national workplace exposure limit(s) (DE, LV, SI)	CAS-No.: 7631-86-9 EC-No.: 231-545-4 REACH-no: 01-2119379499-16	0,1 – 1	Not classified
Triisobutyl phosphate (INCI: TRIISOBUTYL PHOSPHATE) substance with national workplace exposure limit(s) (DE, AT)	CAS-No.: 126-71-6 EC-No.: 204-798-3 REACH-no: 01-2119957118-32	< 0,1	Skin Sens. 1B, H317
1,2-Benzisothiazol-3(2H)-one (INCI: BENZISOTHIAZOLINONE) (Active substance (Biocide))	CAS-No.: 2634-33-5 EC-No.: 220-120-9 EC Index-No.: 613-088-00-6	< 0,1	Acute Tox. 2 (Inhalation:dust,mist), H330 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2-butoxyethanol (INCI: BUTOXYETHANOL) substance with national workplace exposure limit(s) (BE, BG, DK, DE, FI, FR, GR, HU, IT, LV, LT, LU, MT, NL, AT, PT, SI, SK, ES, GB, SE); substance with a Community workplace exposure limit	CAS-No.: 111-76-2 EC-No.: 203-905-0 EC Index-No.: 603-014-00-0 REACH-no: 01-2119475108-36	< 0,1	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 3 (Inhalation:vapour), H331 Skin Irrit. 2, H315 Eye Irrit. 2, H319
Potassium hydroxide (INCI: POTASSIUM HYDROXIDE) substance with national workplace exposure limit(s) (BE, BG, DK, EE, FI, FR, GR, HU, IE, AT, PL, PT, ES, CZ, GB, SE)	CAS-No.: 1310-58-3 EC-No.: 215-181-3 EC Index-No.: 019-002-00-8 REACH-no: 01-2119487136-33	< 0,1	Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 Skin Corr. 1, H314 Eye Dam. 1, H318
(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	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

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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) 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) 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

Specific concentration limits:

Name	Product identifier	Specific concentration limits (Conc. (% w/w))
Fatty alcohol ethoxylate (2-Propylheptanol, ethoxylated (≥ 2.5 EO)) (INCI: C9-11 Pareth-(6-8))	CAS-No.: 160875-66-1	($1 \leq C < 10$) Eye Irrit. 2; H319 ($10 \leq C < 100$) Eye Dam. 1; H318
1,2-Benzisothiazol-3(2H)-one (INCI: BENZISOTHIAZOLINONE) (Active substance (Biocide))	CAS-No.: 2634-33-5 EC-No.: 220-120-9 EC Index-No.: 613-088-00-6	($0,036 \leq C < 100$) Skin Sens. 1; H317
Potassium hydroxide (INCI: POTASSIUM HYDROXIDE)	CAS-No.: 1310-58-3 EC-No.: 215-181-3 EC Index-No.: 019-002-00-8 REACH-no: 01-2119487136-33	($0,5 \leq C < 2$) Eye Irrit. 2; H319 ($0,5 \leq C < 2$) Skin Irrit. 2; H315 ($2 \leq C < 5$) Skin Corr. 1B; H314 ($5 \leq C < 100$) Skin Corr. 1A; H314
5-chloro-2-methyl-4-isothiazoline-3-one(MCI)(KathonCG) (INCI: METHYLCHLOROISOTHIAZOLINONE)	CAS-No.: 26172-55-4 EC-No.: 247-500-7 REACH-no: 01-2120764691-48	($0,0015 \leq C < 100$) Skin Sens. 1; H317 ($0,06 \leq C < 100$) Skin Irrit. 2; H315 ($0,06 \leq C < 100$) Eye Irrit. 2; H319 ($0,6 \leq C < 100$) Skin Corr. 1B; H314
2-Methyl-4-isothiazolin-3-one(MI) (INCI: METHYLISOTHIAZOLINONE)	CAS-No.: 2682-20-4 EC-No.: 220-239-6 REACH-no: 01-2120764691-48	($0,0015 \leq C < 100$) Skin Sens. 1; H317 ($0,0015 \leq C < 100$) 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.

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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.
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5.3. Advice for firefighters

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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

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

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

6.2. Environmental precautions

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.
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6.4. Reference to other sections

See Section 8. Exposure controls and personal protection.

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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/m ³

Ethers (111-90-0)

Austria - Occupational Exposure Limits

Local name	2-(2-Ethoxyethoxy)ethanol
MAK (OEL TWA)	35 mg/m ³ 6 ppm
MAK (OEL STEL)	140 mg/m ³ (4x 15(Miw) min) 24 ppm (4x 15(Miw) min)
Regulatory reference	BGBl. II Nr. 238/2018

Germany - Occupational Exposure Limits (TRGS 900)

Local name	2-(2-Ethoxyethoxy)ethanol
AGW (OEL TWA)	35 mg/m ³ 6 ppm
Peak exposure limitation factor	2(I)
Remark	AGS - Ausschuss für Gefahrstoffe; 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

Netherlands - Occupational Exposure Limits

TGG-8u (OEL TWA)	180 mg/m ³
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Ethers (111-90-0)	
Sweden - Occupational Exposure Limits	
Local name	Dietylenglykolmonoetyleter
NGV (OEL TWA)	80 mg/m ³
	15 ppm
KGV (OEL STEL)	170 mg/m ³
	30 ppm
Remark	H (Ämnet tas lätt upp genom huden. Gränsvärdet bedöms ge tillräckligt skydd om huden är skyddad); V (Väglädande kortidsgränsvärde som ska användas som ett rekommenderat högsta värde som inte bör överskridas)
Regulatory reference	Arbetsmiljöverkets föreskrifter och allmänna råd (AFS 2023:14) om gränsvärden för luftvägsexponering i arbetsmiljön
Silicon dioxide (7631-86-9)	
Germany - Occupational Exposure Limits (TRGS 900)	
Local name	Kieselsäuren, amorphe
AGW (OEL TWA)	1 mg/m ³ (E)
Peak exposure limitation factor	8(II)
Remark	AGS - Ausschuss für Gefahrstoffe; 2 - Kolloidale amorphe Kieselsäure (7631-86-9) einschließlich pyrogener Kieselsäure und im Nassverfahren hergestellter Kieselsäure (Fällungskieselsäure, Kieselgel); Y - Ein Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet zu werden
Regulatory reference	TRGS900
Latvia - Occupational Exposure Limits	
Local name	Silīcija dioksīds
OEL TWA	1 mg/m ³
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2024. gada 26. martā noteikumiem Nr. 191).
Slovenia - Occupational Exposure Limits	
Local name	silikagel
OEL TWA	4 mg/m ³
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
Switzerland - Occupational Exposure Limits	
Local name	Diatomeenerde (s. Kieselsäure, amorphe)
Remark	SS _c
Triisobutyl phosphate (126-71-6)	
Austria - Occupational Exposure Limits	
Local name	Triisobutylphosphat
MAK (OEL TWA)	50 mg/m ³
MAK (OEL STEL)	100 mg/m ³ (3x 60(Mow) min)

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Triisobutyl phosphate (126-71-6)	
Regulatory reference	BGBl. II Nr. 330/2024
Germany - Occupational Exposure Limits (TRGS 900)	
Local name	Triisobutylphosphat
AGW (OEL TWA)	50 mg/m ³
AGW (OEL C)	100 mg/m ³
Peak exposure limitation factor	2(II)
Remark	AGS - Ausschuss für Gefahrstoffe; Sh - Hautsensibilisierender Stoff; 11 - Summe aus Dampf und Aerosolen
Regulatory reference	TRGS900
2-butoxyethanol (111-76-2)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	2-Butoxyethanol
IOEL TWA	98 mg/m ³
	20 ppm
IOEL STEL	246 mg/m ³
	50 ppm
Remark	Skin
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
Austria - Occupational Exposure Limits	
Local name	2-Butoxyethanol
MAK (OEL TWA)	98 mg/m ³
	20 ppm
MAK (OEL STEL)	200 mg/m ³ (4x 30(Miw) min)
	40 ppm (4x 30(Miw) min)
Remark	H
Regulatory reference	BGBl. II Nr. 238/2018
Belgium - Occupational Exposure Limits	
Local name	2-Butoxyéthanol # 2-Butoxy-ethanol
OEL TWA	98 mg/m ³
	20 ppm
OEL STEL	246 mg/m ³
	50 ppm
Remark	D: la mention "D" signifie que la résorption de l'agent, via la peau, les muqueuses ou les yeux, constitue une partie importante de l'exposition totale. Cette résorption peut se faire tant par contact direct que par présence de l'agent dans l'air. # D: de vermelding "D" betekent dat de opname van het agens via de huid, de slijmvliezen of de ogen een belangrijk deel van de totale blootstelling vormt. Deze opname kan het gevolg zijn van zowel direct contact als zijn aanwezigheid in de lucht.
Regulatory reference	Koninklijk besluit/Arrêté royal 16/11/2023

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2-butoxyethanol (111-76-2)	
Bulgaria - Occupational Exposure Limits	
Local name	2-Бутоксиетанол
OEL TWA	98 mg/m ³
	20 ppm
OEL STEL	246 mg/m ³
	50 ppm
Remark	Кожа (възможна е значителна резорбция чрез кожата); * (Химични агенти, за които са определени гранични стойности във въздуха на работната среда за Европейската общност)
Regulatory reference	Наредба № 13 от 30.12.2003 г. за защита на работещите от рискове, свързани с експозиция на химични агенти при работа (изм. и доп. ДВ. бр. 28 от 2024 г., в сила от 05.04.2024 г.)
Denmark - Occupational Exposure Limits	
Local name	Butylglycol (2-Butoxyethanol; Butylcellosolve; Ethylenglycolmonobutylether)
OEL TWA	98 mg/m ³
	20 ppm
OEL STEL	246 mg/m ³
	50 ppm
Remark	E (betyder, at stoffet har en EU-grænseværdi); H (betyder, at stoffet kan optages gennem huden)
Regulatory reference	BEK nr 1619 af 19/12/2024
Finland - Occupational Exposure Limits	
Local name	2-Butoksietanoli
HTP (OEL TWA)	98 mg/m ³
	20 ppm
HTP (OEL STEL)	250 mg/m ³
	50 ppm
Remark	Iho
Regulatory reference	HTP-ARVOT 2025 (Sosiaali- ja terveysministeriö)
France - Occupational Exposure Limits	
Local name	2-Butoxyéthanol (Butylglycol)
VME (OEL TWA)	49 mg/m ³
	10 ppm
VLE (OEL C/STEL)	246 mg/m ³
	50 ppm
Remark	Valeurs réglementaires contraignantes. Risque de pénétration percutanée
Regulatory reference	Article R4412-149 du Code du travail (réf.: INRS ED 6443, 2022; Outil65; Décret n° 2019-1487; Décret n° 2020-1546; Décret n° 2021-434; Décret n° 2021-1849; Décret n° 2024-307)
Germany - Occupational Exposure Limits (TRGS 900)	
Local name	2-Butoxyethanol

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2-butoxyethanol (111-76-2)	
AGW (OEL TWA)	49 mg/m ³
	10 ppm
Peak exposure limitation factor	2(l)
Remark	EU - Europäische Union (Von der EU wurde ein Luftgrenzwert festgelegt: Abweichungen bei Wert und Spitzenbegrenzung sind möglich); DFG - Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG (MAK-Kommission); H - hautresorptiv; Y - Ein Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet zu werden
Regulatory reference	TRGS900
Greece - Occupational Exposure Limits	
Local name	Βουτοξυ-αιθανόλη, 2-
OEL TWA	120 mg/m ³
	25 ppm
Remark	Η ένδειξη «δέρμα» στις οριακές τιμές επαγγελματικής έκθεσης επισημαίνει το ενδεχόμενο σημαντικής διείσδυσης μέσω του δέρματος.
Regulatory reference	Π.Δ. 90/1999 - Προστασία της υγείας των εργαζομένων που εκτίθενται σε ορισμένους χημικούς παράγοντες κατά τη διάρκεια της εργασίας τους
Hungary - Occupational Exposure Limits	
Local name	2-BUTOXIETANOL
AK (OEL TWA)	98 mg/m ³
	20 ppm
CK (OEL STEL)	246 mg/m ³
	50 ppm
Remark	b (Bőrön át is felszívódik), i (ingerlő anyag, amely izgatja a bőrt, nyálkahártyát, szemet vagy mindhármát); EU1 (2000/39/EK irányelvben közölt érték); T (Azok az anyagok, amelyek egészségkárosító hatása TARTÓS expozíciót követően jelentkezik)
Regulatory reference	5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
Italy - Occupational Exposure Limits	
Local name	Butossietanolo-2
OEL TWA	98 mg/m ³
	20 ppm
OEL STEL	246 mg/m ³
	50 ppm
Remark	Cute
Regulatory reference	Allegato XXXVIII del Decreto Legislativo 4 settembre 2024, n. 135
Latvia - Occupational Exposure Limits	
Local name	2-Butoksietanols, (etilēnglikola monobutilēteris, Butilcelosolvs)
OEL TWA	98 mg/m ³
	20 ppm
OEL STEL	246 mg/m ³
	50 ppm

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2-butoxyethanol (111-76-2)	
Remark	Āda
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	Etilenglikolio monobutileteris (butilglikolis, 2-butoksietanolis)
IPRV (OEL TWA)	50 mg/m ³
	10 ppm
TPRV (OEL STEL)	100 mg/m ³
	20 ppm
Remark	O (medžiaga į organizmą gali prasiskverbti pro nepažeistą odą)
Regulatory reference	LIETUVOS HIGIENOS NORMA HN 23:2011 (Nr. V-695/A1-272, 2018-06-12)
Luxembourg - Occupational Exposure Limits	
Local name	2-Butoxyéthanol
OEL TWA	98 mg/m ³
	20 ppm
OEL STEL	246 mg/m ³
	50 ppm
Remark	Peau
Regulatory reference	Mémorial A N° 226 de 2021 concernant la protection de la sécurité et de la santé des salariés contre les risques liés à des agents chimiques sur le lieu de travail
Malta - Occupational Exposure Limits	
Local name	2-Butoxyethanol
OEL TWA	98 mg/m ³
	20 ppm
OEL STEL	246 mg/m ³
	50 ppm
Remark	Skin # Ġilda
Regulatory reference	S.L. 424.24 - Chemical Agents at Work Regulations (L.N. 356 of 2021) # L.S. 424.24 - Regolamenti dwar Agenti Kimiċi fuq il-Post tax-Xogħol (A.L. 356 tal-2021)
Netherlands - Occupational Exposure Limits	
Local name	2-Butoxyethanol
TGG-8u (OEL TWA)	100 mg/m ³
	20,4 ppm
TGG-15min (OEL STEL)	246 mg/m ³
	50 ppm
Remark	H (Huidopname) Stoffen die relatief gemakkelijk door de huid kunnen worden opgenomen, hetgeen een substantiële bijdrage kan betekenen aan de totale inwendige blootstelling, hebben in de lijst een H-aanduiding. Bij deze stoffen moeten naast maatregelen tegen inademing ook adequate maatregelen ter voorkoming van huidcontact worden genomen.
Regulatory reference	Arbeidsomstandighedenregeling 2024

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2-butoxyethanol (111-76-2)	
Portugal - Occupational Exposure Limits	
Local name	2-Butoxietanol (EGBE)
OEL TWA	20 ppm
Remark	A3 (Agente carcinogénico confirmado nos animais de laboratorio con relevância desconhecida no Homem); IBE (Índice biológico de exposição)
Regulatory reference	Norma Portuguesa NP 1796:2014
Slovakia - Occupational Exposure Limits	
Local name	2-Butoxyetanol (butylglykol)
NPHV (OEL TWA)	98 mg/m ³ 20 ppm
NPHV (OEL STEL)	246 mg/m ³ 50 ppm
Remark	K – znamená, že faktor môže byť ľahko absorbovaný kožou
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z. (122/2024 Z. z.)
Slovenia - Occupational Exposure Limits	
Local name	2-butoksietanol (butilglikol)
OEL TWA	98 mg/m ³ 20 ppm
OEL STEL	245 mg/m ³ 50 ppm
Remark	K (Lastnost lažjega prehajanja snovi v organizem skozi kožo), Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in bat vrednosti), BAT (Biološka mejna vrednost), EU
Regulatory reference	Uradni list RS, št. 26/2025 z dne 18.4.2025 - Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu
Spain - Occupational Exposure Limits	
Local name	2-Butoxietanol (Butil cellosolve; Éter monobutílico del etilenglicol)
VLA-ED (OEL TWA)	98 mg/m ³ 20 ppm
VLA-EC (OEL STEL)	245 mg/m ³ 50 ppm
Remark	Vía dérmica (Indica que, en las exposiciones a esta sustancia, la aportación por la vía cutánea puede resultar significativa para el contenido corporal total si no se adoptan medidas para prevenir la absorción. En estas situaciones, es aconsejable la utilización del control biológico para poder cuantificar la cantidad global absorbida del contaminante), VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo), VLB® (Agente químico que tiene Valor Límite Biológico).
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2025. INSHT
Sweden - Occupational Exposure Limits	
Local name	Etylenglykolmonobutyleter (2-Butoxietanol)
NGV (OEL TWA)	50 mg/m ³ 10 ppm

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2-butoxyethanol (111-76-2)	
KGV (OEL STEL)	246 mg/m ³
	50 ppm
Remark	H (Ämnet tas lätt upp genom huden. Gränsvärdet bedöms ge tillräckligt skydd om huden är skyddad); 23 (Ämnet har ett indikativt EU-gränsvärde)
Regulatory reference	Arbetsmiljöverkets föreskrifter och allmänna råd (AFS 2023:14) om gränsvärden för luftvägsexponering i arbetsmiljön
United Kingdom - Occupational Exposure Limits	
Local name	2-Butoxyethanol
WEL TWA (OEL TWA)	123 mg/m ³
	25 ppm
WEL STEL (OEL STEL)	246 mg/m ³
	50 ppm
Remark	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
Norway - Occupational Exposure Limits	
Local name	2-butoksyetanol (Butylglykol; Etylenglykolmonobutyleter)
Grenseverdi (OEL TWA)	50 mg/m ³
	10 ppm
Remark	H: Kjemikalier som kan tas opp gjennom huden; E: EU har en veiledende grenseverdi og/eller anmerkning for stoffet.
Regulatory reference	FOR-2024-04-05-581
Switzerland - Occupational Exposure Limits	
Local name	2-Butoxyethanol
MAK (OEL TWA)	49 mg/m ³
	49 mg/m ³
	49 mg/m ³
	10 ppm
	10 ppm
	10 ppm
KZGW (OEL STEL)	98 mg/m ³
	98 mg/m ³
	98 mg/m ³
	20 ppm
	20 ppm
	20 ppm
Remark	H B SS _C - Auge, OAW ^{KT AN} - HSE, INRS, NIOSH beachte besonders 1.9.2
Bases (1310-58-3)	
Austria - Occupational Exposure Limits	
Local name	Kaliumhydroxid
MAK (OEL TWA)	2 mg/m ³ (E)
Regulatory reference	BGBl. II Nr. 330/2024

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Bases (1310-58-3)	
Belgium - Occupational Exposure Limits	
Local name	Potassium (hydroxyde de) # Kaliumhydroxide
OEL STEL	2 mg/m ³
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 werkproces 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 16/11/2023
Bulgaria - Occupational Exposure Limits	
Local name	Калиева основа
OEL TWA	2 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.)
Czech Republic - Occupational Exposure Limits	
Local name	Hydroxid draselný
PEL (OEL TWA)	1 mg/m ³
NPK-P (OEL C)	2 mg/m ³
Remark	I - dráždí sliznice (oči, dýchací cesty), resp. kůži.
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 20/2025 Sb.)
Denmark - Occupational Exposure Limits	
Local name	Kaliumhydroxid
OEL STEL	2 mg/m ³
Regulatory reference	BEK nr 1619 af 19/12/2024
Estonia - Occupational Exposure Limits	
Local name	Kaaliumhüdoksiid
OEL TWA	2 mg/m ³
Regulatory reference	Vabariigi Valitsuse 20. märtsi 2001. a määruse nr 105 (RT I, 02.04.2024, 13)
Finland - Occupational Exposure Limits	
Local name	Kaliumhydroksidi
HTP (OEL C)	2 mg/m ³
Regulatory reference	HTP-ARVOT 2025 (Sosiaali- ja terveysministeriö)
France - Occupational Exposure Limits	
Local name	Potassium (hydroxyde de)
VLE (OEL C/STEL)	2 mg/m ³
Remark	Valeurs recommandées/admises

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Bases (1310-58-3)	
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 6443, 2022; Outil65)
Greece - Occupational Exposure Limits	
Local name	Υδροξείδιο του καλίου
OEL TWA	2 mg/m ³
OEL STEL	2 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
Hungary - Occupational Exposure Limits	
Local name	KÁLIUM-HIDROXID
AK (OEL TWA)	2 mg/m ³
CK (OEL STEL)	2 mg/m ³
Remark	m (maró hatású anyag, amely felmarja a bőrt, nyálkahártyát, szemet vagy mindhármat); 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
Ireland - Occupational Exposure Limits	
Local name	Potassium hydroxide
OEL STEL	2 mg/m ³
Remark	Advisory OELV (Advisory Occupational Exposure Limit Values)
Regulatory reference	Chemical Agents Code of Practice 2024
Poland - Occupational Exposure Limits	
Local name	Wodorotlenek potasu
NDS (OEL TWA)	0,5 mg/m ³
NDSCh (OEL STEL)	1 mg/m ³
Regulatory reference	Dz. U. 2024 poz. 1017 wraz z późn. zm.
Portugal - Occupational Exposure Limits	
Local name	Hidróxido de potássio
OEL C	2 mg/m ³ 2 ppm
Regulatory reference	Norma Portuguesa NP 1796:2014
Spain - Occupational Exposure Limits	
Local name	Hidróxido de potasio
VLA-EC (OEL STEL)	2 mg/m ³
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2025. INSHT
Sweden - Occupational Exposure Limits	
Local name	Kaliumhydroxid
NGV (OEL TWA)	1 mg/m ³ (inhalerbar fraktion)
KGV (OEL STEL)	2 mg/m ³ (inhalerbar fraktion)

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Bases (1310-58-3)	
Remark	25 (Med inhalerbar och respirabel fraktion menas de dammfractioner som definieras i svensk standard SS-EN 481, Arbetsplatsluft – Partikelstorleksfraktioner för mätning av luftburna partiklar (utgåva 1, 1993). Med totaldamm menas de partiklar (aerosoler) som fastnar på ett filter i en totaldammprovtagare)
Regulatory reference	Arbetsmiljöverkets föreskrifter och allmänna råd (AFS 2023:14) om gränsvärden för luftvägsexponering i arbetsmiljön
United Kingdom - Occupational Exposure Limits	
Local name	Potassium hydroxide
WEL STEL (OEL STEL)	2 mg/m ³
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
Iceland - Occupational Exposure Limits	
Local name	Kalíumhýdroxíð
OEL STEL	2 mg/m ³
Regulatory reference	Reglugerð um mengunarmörk og aðgerðir til að draga úr mengun á vinnustöðum (Nr. 390/2009)
Norway - Occupational Exposure Limits	
Local name	Kaliumhydroksid
Grenseverdi (OEL TWA)	2 mg/m ³
Takverdi (OEL C)	2 mg/m ³
Regulatory reference	FOR-2024-04-05-581
(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

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

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

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	BGBl. II Nr. 186/2015

Germany - Occupational Exposure Limits (TRGS 900)

AGW (OEL C)	0,2 mg/m ³
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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

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METHYLCHLOROISOTHIAZOLINONE (26172-55-4)	
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
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	BGBI. 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

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 Floor Cleaner Protect & Restore	
DNEL/DMEL (additional information)	
See http	//www.dguv.de/ifa/de/gestis/limit_values/index.jsp: Information on ingredients.
1,2-Benzisothiazol-3(2H)-one (2634-33-5)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	0,966 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	6,81 mg/m ³
PNEC (Water)	
PNEC aqua (freshwater)	0,00403 mg/l

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1,2-Benzisothiazol-3(2H)-one (2634-33-5)	
PNEC aqua (marine water)	0,000403 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0,0499 mg/kg dwt
PNEC sediment (marine water)	0,00499 mg/kg dwt
PNEC (Soil)	
PNEC soil	3 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	1,03 mg/l

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No additional information available

8.2.2. Personal protection equipment

Personal protective equipment:

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

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

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

Not required

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	: milky.

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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
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: 8,4 (20°C)
pH solution concentration	: 100 %
Viscosity, kinematic	: > 9,891 mm ² /s
Viscosity, dynamic	: < 10 mPa·s (20°C)
Solubility	: Miscible with water.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: 1,011 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

9.2.2. Other safety characteristics

VOC content : < 10 %

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

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Acute toxicity (inhalation) : Not classified

Water (7732-18-5)	
LD50 oral	> 90000 mg/kg bodyweight
LD50 dermal	> 90000 mg/kg bodyweight
Fatty alcohol ethoxylate (2-Propylheptanol, ethoxylated (>= 2.5 EO)) (160875-66-1)	
LD50 oral rat	> 500 mg/kg
Ethers (111-90-0)	
LD50 oral rat	5500 mg/kg
LD50 oral	6031 mg/kg bodyweight
LD50 dermal rat	6000 – 6500 mg/kg
LD50 dermal rabbit	8500 mg/kg (OECD 402)
LD50 dermal	9143 mg/kg bodyweight
LC50 Inhalation - Rat	> 5,24 mg/l/4h
LC50 Inhalation - Rat (Dust/Mist)	> 5240 mg/l
Silicon dioxide (7631-86-9)	
LD50 oral rat	> 5000 mg/kg
LD50 oral	> 5000 mg/kg bodyweight
LD50 dermal rabbit	> 5000 mg/kg
LD50 dermal	> 2000 mg/kg bodyweight
LC50 Inhalation - Rat	> 0,139 mg/l/4h LC0 Rat: 0.69 mg/l / 4 h
LC50 Inhalation - Rat (Dust/Mist)	> 2080 mg/l
Triisobutyl phosphate (126-71-6)	
LD50 oral rat	4180 mg/kg
LD50 oral	> 5000 mg/kg bodyweight
LD50 dermal rabbit	> 5000 mg/kg
LD50 dermal	> 5000 mg/kg bodyweight
LC50 Inhalation - Rat	> 5,14 mg/l/4h (aerosol)
LC50 Inhalation - Rat (Dust/Mist)	> 5140 mg/l
1,2-Benzisothiazol-3(2H)-one (2634-33-5)	
LD50 oral rat	450 – 490 mg/kg (OECD 401)
LD50 oral	1050 mg/kg bodyweight (Mouse)
LD50 dermal rat	> 4115 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LD50 dermal	4115 mg/kg bodyweight
LC50 Inhalation - Rat (Dust/Mist)	100 mg/l/4h
2-butoxyethanol (111-76-2)	
LD50 oral rat	≥ 400 mg/kg
LD50 oral	1746 mg/kg bodyweight
LD50 dermal rat	1300 – 2270 mg/kg

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2-butoxyethanol (111-76-2)	
LD50 dermal rabbit	1001 – 2000 mg/kg
LD50 dermal	435 mg/kg bodyweight
LC50 Inhalation - Rat	2,56 – 2,65 mg/l/4h
Bases (1310-58-3)	
LD50 oral rat	333 mg/kg (OECD 425)
LD50 oral	333 mg/kg bodyweight
(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
LD50 dermal rabbit	2250 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
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)
Skin corrosion/irritation	: Not classified pH: 8,4 (20°C)
Additional information	: Based on available data, the classification criteria are not met
Fatty alcohol ethoxylate (2-Propylheptanol, ethoxylated (>= 2.5 EO)) (160875-66-1)	
pH	7 (50g/l, 20°C)
2-butoxyethanol (111-76-2)	
pH	≈ 7
Bases (1310-58-3)	
pH	> 14
Serious eye damage/irritation	: Causes serious eye irritation. pH: 8,4 (20°C)

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Fatty alcohol ethoxylate (2-Propylheptanol, ethoxylated (≥ 2.5 EO)) (160875-66-1)	
pH	7 (50g/l, 20°C)
2-butoxyethanol (111-76-2)	
pH	≈ 7
Bases (1310-58-3)	
pH	> 14
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
1,2-Benzisothiazol-3(2H)-one (2634-33-5)	
NOAEL (animal/male, F0/P)	112 mg/kg
NOAEL (animal/female, F0/P)	112 mg/kg
NOAEL (animal/male, F1)	56,6 mg/kg
NOAEL (animal/female, F1)	56,6 mg/kg
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.
STOT-repeated exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
1,2-Benzisothiazol-3(2H)-one (2634-33-5)	
NOAEL (oral, rat, 28 days)	150 mg/kg bodyweight/day (OECD 407)
Aspiration hazard	: Not classified
Additional information	: Based on available data, the classification criteria are not met
James Floor Cleaner Protect & Restore	
Viscosity, kinematic	> 9,891 mm ² /s
Fatty alcohol ethoxylate (2-Propylheptanol, ethoxylated (≥ 2.5 EO)) (160875-66-1)	
Viscosity, kinematic	300 mm ² /s
Ethers (111-90-0)	
Viscosity, kinematic	3,877 – 3,905 mm ² /s
2-butoxyethanol (111-76-2)	
Viscosity, kinematic	3,7 mm ² /s (20°C)

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

No additional information available

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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

Fatty alcohol ethoxylate (2-Propylheptanol, ethoxylated (≥ 2.5 EO)) (160875-66-1)	
LC50 - Fish [1]	10 – 100 (96h, Oncorhynchus mykiss)
EC50 - Crustacea [1]	10 – 100 mg/l (48h)
EC50 72h - Algae [1]	10 – 100 mg/l (72h)
Ethers (111-90-0)	
LC50 - Fish [1]	9400 mg/l (96h) (6010 mg/l; 96h, Ictalurus punctatus, OECD 203)
LC50 - Fish [2]	14050 mg/l (96h, Gambusia affinis, OECD 203)
EC50 - Crustacea [1]	1982 (48h, Daphnia magna, OECD 202)
EC50 - Other aquatic organisms [2]	14861 mg/l
EC50 72h - Algae [1]	21400 mg/l (Algae, EC50, 96h, Lepomis macrochirus)
EC50 72h - Algae [2]	> 100 mg/l (96h, Desmodesmus subspicatus, OECD 201)
Silicon dioxide (7631-86-9)	
LC50 - Fish [1]	> 10000 mg/l (96h, OECD 203)
EC50 - Crustacea [1]	> 10000 mg/l (48h, OECD 202)
EC50 - Other aquatic organisms [1]	> 10000 mg/l waterflea
Triisobutyl phosphate (126-71-6)	
LC50 - Fish [1]	10 – 100 (96h, Leuciscus idus)
LC50 - Fish [2]	> 12,6 mg/l (96h, Brachydanio rerio, OESO-Richtlijn 203, zwakstromend)
EC50 - Crustacea [1]	10 – 100 (24h, DIN 38412 part 11)
EC50 - Crustacea [2]	24 mg/l (48h, Daphnia magna, OESO-Richtlijn 202, deel 1, statisch)
EC50 - Other aquatic organisms [1]	11 mg/l waterflea
EC50 - Other aquatic organisms [2]	34,1 mg/l
ErC50 other aquatic plants	10 – 100 mg/l (72h, Scenedesmus subspicatus, DIN 38412 part 9)
1,2-Benzisothiazol-3(2H)-one (2634-33-5)	
LC50 - Fish [1]	2,2 mg/l (96h, Oncorhynchus mykiss, OECD 203)
LC50 - Fish [2]	0,74 mg/l (96h)

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1,2-Benzisothiazol-3(2H)-one (2634-33-5)	
EC50 - Crustacea [1]	3 mg/l (48h, Daphnia magna)
EC50 - Crustacea [2]	2,44 mg/l (48h, Daphnia magna)
EC50 - Other aquatic organisms [1]	2,94 mg/l (48h, Daphnia magna, OECD 202)
EC50 - Other aquatic organisms [2]	0,11 mg/l IC50 algea (72 h) mg/l
ErC50 algae	0,11 mg/l (72h, Pseudokirchneriella subcapitata, OECD 201)
NOEC chronic fish	0,21 mg/l (28d, Oncorhynchus mykiss, OECD 215)
NOEC chronic crustacea	1,2 mg/l (21d, Daphnia magna, OECD 211)
NOEC chronic algae	0,027 mg/l (72h, Skeletonema costatum, OECD 201) / (0.04 mg/l, Selenastrum capricornutum, OECD 201)
2-butoxyethanol (111-76-2)	
LC50 - Fish [1]	1700 mg/l (24h, Carassius auratus)
LC50 - Fish [2]	1474 (96u, Oncorhynchus mykiss, OECD 203)
EC50 - Crustacea [1]	1550 (48h, Daphnia magna, OECD 202)
EC50 - Other aquatic organisms [2]	911 mg/l
EC50 72h - Algae [1]	911 mg/l (72h, Pseudokirchneriella subcapitata, OECD 201)
NOEC chronic fish	> 100 mg/l (21d, Danio rerio)
NOEC chronic crustacea	> 100 mg/l (Daphnia magna, 21 d, OECD 211)
NOEC chronic algae	> 280 mg/l (Pseudokirchneriella subcapitata, OECD 201)
Bases (1310-58-3)	
LC50 - Fish [1]	45,4 – 80 mg/l (96h, Min: Oncorhynchus mykiss / Max: Gambusia affinis)
LC50 - Fish [2]	165 mg/l (24h, Poecilia reticulata)
EC50 - Crustacea [1]	40 – 40,4
EC50 - Crustacea [2]	40 – 240
(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)
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))

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METHYLCHLOROISOTHIAZOLINONE (26172-55-4)	
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
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)

12.2. Persistence and degradability

James Floor Cleaner Protect & Restore	
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
Fatty alcohol ethoxylate (2-Propylheptanol, ethoxylated (>= 2.5 EO)) (160875-66-1)	
Persistence and degradability	Rapidly degradable
Biodegradation	> 60 % (28d, OECD301B, C.4-C; 648/2004)
Ethers (111-90-0)	
Persistence and degradability	Rapidly degradable

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Silicon dioxide (7631-86-9)	
Persistence and degradability	Rapidly degradable
Triisobutyl phosphate (126-71-6)	
Persistence and degradability	Rapidly degradable
Biodegradation	79 – 82 % (28d, OESO 301B; ISO 9439; 92/69/EEG, C.4-C)
1,2-Benzisothiazol-3(2H)-one (2634-33-5)	
Persistence and degradability	Not rapidly degradable
Biodegradation	(~ 90%, OECD302 B) / (80%, OECD303 A) / (85%, OECD301 C)
2-butoxyethanol (111-76-2)	
Persistence and degradability	Readily biodegradable.
Biodegradation	90,4 – 95 % (OECD 301 E)
Bases (1310-58-3)	
Persistence and degradability	Rapidly degradable
(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
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)
12.3. Bioaccumulative potential	
James Floor Cleaner Protect & Restore	
Bioaccumulative potential	Not established.
Water (7732-18-5)	
Partition coefficient n-octanol/water (Log Kow)	-1,38
Fatty alcohol ethoxylate (2-Propylheptanol, ethoxylated (>= 2.5 EO)) (160875-66-1)	
Partition coefficient n-octanol/water (Log Pow)	0,3
Partition coefficient n-octanol/water (Log Kow)	0,3
Ethers (111-90-0)	
Bioconcentration factor (BCF REACH)	< 100
Partition coefficient n-octanol/water (Log Pow)	-0,5
Partition coefficient n-octanol/water (Log Kow)	-0,54
Silicon dioxide (7631-86-9)	
Partition coefficient n-octanol/water (Log Pow)	0,53

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Silicon dioxide (7631-86-9)	
Partition coefficient n-octanol/water (Log Kow)	0,53
Triisobutyl phosphate (126-71-6)	
Partition coefficient n-octanol/water (Log Pow)	3,7
1,2-Benzisothiazol-3(2H)-one (2634-33-5)	
BCF - Fish [1]	6,95 (OECD 305)
Partition coefficient n-octanol/water (Log Kow)	0,64 (0,4 – 0,7)
2-butoxyethanol (111-76-2)	
Partition coefficient n-octanol/water (Log Pow)	0,8
Partition coefficient n-octanol/water (Log Kow)	0,83
Bases (1310-58-3)	
Partition coefficient n-octanol/water (Log Pow)	0,75
Partition coefficient n-octanol/water (Log Kow)	-3,88
(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
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))

12.4. Mobility in soil

No additional information available

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 Floor Cleaner Protect & Restore	
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.

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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

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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

VOC Directive (2004/42)

VOC content : < 10 %

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) :
Contains : BENZISOTHIAZOLINONE

Detergent Regulation (EC 648/2004)

Labelling of contents	
Component	%
non-ionic surfactants, phosphates	<5%
BENZISOTHIAZOLINONE	
METHYLCHLOROISOTHIAZOLINONE	
METHYLISOTHIAZOLINONE	
perfumes	
LINALYL ACETATE	

Fragrance allergens > 0.01%:

LINALYL ACETATE

Explosives Precursors Regulation (EU 2019/1148)

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

Drug Precursors Regulation (EC 273/2004)

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

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15.1.2. National regulations

France

Occupational diseases	
Code	Description
RG 65	Eczematiform lesions of allergic mechanism
RG 66	Occupational rhinitis and asthma
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

VOC ordinance (ChemVOCFarbV)	: VOC content	: < 10 %
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.	
Major Accidents Ordinance (12. BImSchV)	: Is not subject to the Major Accidents Ordinance (12. BImSchV)	

Netherlands

ABM category	: B(4) - low hazard for aquatic organisms
SZW-lijst van kankerverwekkende stoffen	: Kerosene oils, sulfochlorinated, saponified is listed
SZW-lijst van mutagene stoffen	: Kerosene oils, sulfochlorinated, saponified is 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	: None of the components are listed

Denmark

Classification remarks	: Emergency management guidelines for the storage of flammable liquids must be followed
Danish National Regulations	: Pregnant/breastfeeding women working with the product must not be in direct contact with the product

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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)

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
	Supersedes	Modified
	Version	Modified Minor
3	Composition/information on ingredients	Modified
9	VOC content	Added

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Abbreviations and acronyms:

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

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Abbreviations and acronyms:

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

Data sources	: Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals. REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. Regulation (EC) No. 648/2004 of 31 March 2004 on detergents.
Other information	: None. 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:vapour)	Acute toxicity (inhalation:vapour) Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), 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 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Flam. Liq. Not classified	Flammable liquids Not classified
Met. Corr. 1	Corrosive to metals, Category 1
Skin Corr. 1	Skin corrosion/irritation, Category 1
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1

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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.
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.
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.
H412	Harmful to aquatic life with long lasting effects.
EUH208	Contains BENZISOTHIAZOLINONE, METHYLCHLOROISOTHIAZOLINONE. 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)
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.