

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

1.1. Product identifier

Product form : Mixture
Product name : James Cleanmaster
Product code : 4745.0_76068RT89010
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
Use of the substance/mixture : The data given here is based on the product properties as mentioned in section 1.1. and is provided on the assumption, that the product will be used in the manner and for the purposes for which the manufacturer indicates.
Use of the substance/mixture : Cleaner
Function or use category : Cleaning/washing agents and additives

Title	Use descriptors
Transfer of product via a dedicated system (bottle/machine) (Association ref code: AISE_SUMI_PW_8a_2_G)	SU22, PC35, PROC8b, ERC8a, AISE SPERC 8a.1.a.v2
Professional uses; (Trigger) spraying (Association ref code: AISE_SUMI_PW_11_1_G)	SU22, PC35, PROC11, ERC8a, AISE SPERC 8a.1.a.v2
Professional uses; Brushing after trigger spraying or brushing with tools (Association ref code: AISE_SUMI_PW_10_1_G)	SU22, PC35, PROC10, ERC8a, AISE SPERC 8a.1.a.v2
Consumer use of washing and cleaning products	SU21, PC35, ERC8a

Full text of use descriptors: see section 16

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

James
Rudolf Dieselweg 28 a
NL-5928 RA 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	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0344 892 0111	

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 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) :



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Signal word (CLP)	: Warning
Hazard statements (CLP)	: H319 - Causes serious eye irritation.
Precautionary statements (CLP)	: P102 - Keep out of reach of children. P280 - Wear eye protection. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 - If eye irritation persists: Get medical advice/attention.
EUH-statements	: EUH208 - Contains D-LIMONENE, METHYLCHLOROISOTHIAZOLINONE, METHYLISOTHIAZOLINONE. May produce an allergic reaction.
Intended for general public	
Child-resistant fastening	: Not applicable
Tactile warning	: Not applicable

2.3. Other hazards

Other hazards not contributing to the classification : No supplementary information available. The information in this section applies to the undiluted product.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	Conc. (% w/w)	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Alcohol(C12-18)EO(>5-10) (INCI: C12-18 PARETH-7)	(CAS-No.) 68213-23-0 (EC-No.) 500-201-8 (REACH-no) 01-2119489387-20	1 - 5	Eye Dam. 1, H318 Aquatic Chronic 3, H412
Sodium cumenesulfonate (INCI: SODIUM CUMENESULFONATE)	(CAS-No.) 15763-76-5; (28348-53-0) (EC-No.) 248-983-7 (EC Index-No.) 239-854-6 (REACH-no) 01-2119489411-37	1 - 5	Eye Irrit. 2, H319
(R)-p-mentha-1,8-diene (D-Limonene) (INCI: D-LIMONENE)	(CAS-No.) 5989-27-5 (EC-No.) 227-813-5 (EC Index-No.) 601-029-00-7 (REACH-no) 01-2119529223-47	0,1 - 1	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
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	< 0,1	Acute Tox. 4 (Oral), H302 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
2-Methyl-4-isothiazolin-3-one(MI) (INCI: METHYLISOTHIAZOLINONE) (Active substance (Biocide))	(CAS-No.) 2682-20-4 (EC-No.) 220-239-6	< 0,1	Acute Tox. 3 (Oral), H301 Acute Tox. Not classified (Dermal) Acute Tox. 2 (Inhalation:vapour), H330 Acute Tox. 2 (Inhalation:dust,mist), H330 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE Not classified Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Specific concentration limits:

Name	Product identifier	Specific concentration limits
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	(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

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2-Methyl-4-isothiazolin-3-one(MI) (INCI: METHYLISOTHIAZOLINONE) (Active substance (Biocide))	(CAS-No.) 2682-20-4 (EC-No.) 220-239-6	(0,0015 =<C < 100) Skin Sens. 1, H317
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Full text of H-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.
First-aid measures after skin contact	: Wash skin with mild soap and water.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Obtain medical attention if pain, blinking or redness persists.
First-aid measures after ingestion	: Rinse mouth. If you feel unwell, seek medical advice (show the label where possible).

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

Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/effects after inhalation	: May cause minor irritation to the respiratory tract and to other mucous membranes.
Symptoms/effects after skin contact	: May cause slight irritation to the skin. May cause an allergic skin reaction. Itching. Redness.
Symptoms/effects after eye contact	: Eye irritant upon direct contact. 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

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

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 Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Normal precautions for the use of chemicals and cleaners should be taken care of. See information supplied by the manufacturer. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.
Hygiene measures	: Do not eat, drink or smoke when using this product.

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7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Keep only in the original container in a cool, well ventilated place. Keep container tightly closed. Protect from freezing.
Incompatible products	: Strong bases. Strong acids.
Incompatible materials	: Sources of ignition. Direct sunlight.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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DNEL/DMEL (additional information)

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

Sodium cumenesulfonate (INCI: SODIUM CUMENESULFONATE) (15763-76-5; (28348-53-0))

DNEL/DMEL (Workers)

Long-term - systemic effects, dermal	7,6 - 136,25 mg/kg bodyweight/day
Long-term - local effects, dermal	0,096 mg/cm ²
Long-term - systemic effects, inhalation	26,9 - 53,6 mg/m ³

DNEL/DMEL (General population)

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

PNEC (Water)

PNEC aqua (freshwater)	0,23 mg/l
PNEC aqua (marine water)	0,023
PNEC aqua (intermittent, freshwater)	2,3 mg/l

PNEC (Sediment)

PNEC sediment (freshwater)	0,862 mg/kg dwt
PNEC sediment (marine water)	0,0862 mg/kg dwt

PNEC (Soil)

PNEC soil	0,037 mg/kg dwt
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PNEC (STP)

PNEC sewage treatment plant	100 mg/l
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(R)-p-mentha-1,8-diene (D-Limonene) (INCI: D-LIMONENE) (5989-27-5)

DNEL/DMEL (Workers)

Acute - local effects, dermal	0,222 mg/cm ²
Long-term - systemic effects, dermal	8,89 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	31,1 - 33,3 mg/m ³

DNEL/DMEL (General population)

Long-term - systemic effects, oral	4,44 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	7,78 - 8,33 mg/m ³
Long-term - systemic effects, dermal	4,44 mg/kg bodyweight/day
Long-term - local effects, dermal	0,111 mg/cm ²

PNEC (Water)

PNEC aqua (freshwater)	0,0054 mg/l
PNEC aqua (marine water)	0,00054 mg/l

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

PNEC (Sediment)

PNEC sediment (freshwater)	1,32 mg/kg dwt
PNEC sediment (marine water)	0,132 mg/kg dwt

PNEC (Soil)

PNEC soil	0,262 mg/kg dwt
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PNEC (Oral)

PNEC oral (secondary poisoning)	3,33 kg/kg food
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PNEC (STP)

PNEC sewage treatment plant	1,8 mg/l
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8.2. Exposure controls

Personal protective equipment:

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

Hand protection:

None under normal use

Eye protection:

Wear eye/face protection. Chemical goggles or safety glasses. Standard. EN 166. Eye protection should only be necessary where liquid could be splashed or sprayed

Skin and body protection:

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

Respiratory protection:

No special protection required where adequate ventilation is maintained

Personal protective equipment symbol(s):



Other information:

Do not eat, drink or smoke during use. 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. Turbid.
Odour	: perfumed.
Odour threshold	: No data available
pH	: 6,8 (20C)
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: > 100 °C
Flash point	: > 60 °C Not applicable (aqueous non combustible product)
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1,023 g/cm ³ (20°C)
Solubility	: Material highly soluble in water. completely soluble.
Log Pow	: No data available

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Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions.

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 toxicological effects

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

Sodium cumenesulfonate (INCI: SODIUM CUMENESULFONATE) (15763-76-5; (28348-53-0))

LD50 oral rat	> 2000 (2001 - 7000) mg/kg
LD50 oral	> 7000 mg/kg bodyweight (Rat)
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 5 mg/l (232 min.)

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

LD50 oral rat	4400 mg/kg
LD50 dermal rabbit	5000 mg/kg

5-chloro-2-methyl-4-isothiazoline-3-one(MCI)(KathonCG) (INCI: 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 (mg/l)	2,36 mg/l/4h (CIT/MIT)
LC50 inhalation rat (Dust/Mist - mg/l/4h)	1230 mg/m ³

2-Methyl-4-isothiazolin-3-one(MI) (INCI: METHYLISOTHIAZOLINONE) (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 (mg/l)	0,11 - 0,384 mg/l/4h (OECD 403)

Skin corrosion/irritation	: Not classified
	pH: 6,8 (20C)

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

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Serious eye damage/irritation	: Causes serious eye irritation. pH: 6,8 (20C)
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
STOT-repeated exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified
Additional information	: Based on available data, the classification criteria are not met
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

Sodium cumenesulfonate (INCI: SODIUM CUMENESULFONATE) (15763-76-5; (28348-53-0))

LC50 fish 1	> 100 mg/l (96h, Oncorhynchus mykiss)
EC50 Daphnia 1	> 100 mg/l (48h)
EC50 other aquatic organisms 1	> 100 mg/l (72h, Desmodesmus subspicatus)
EC50 other aquatic organisms 2	> 1000 mg/l (Bacteriacea, EC10, 3h, OECD 209)

(R)-p-mentha-1,8-diene (D-Limonene) (INCI: 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 Daphnia 1	0,4 mg/l (48h)
EC50 Daphnia 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)

5-chloro-2-methyl-4-isothiazoline-3-one(MCI)(KathonCG) (INCI: METHYLCHLOROISOTHIAZOLINONE) (26172-55-4)

LC50 fish 1	0,19 mg/l (96h, Oncorhynchus mykiss, mixture 5-chloro-2- methyl-2H-isothiazool-3-on (CAS 26172-55-4) and 2- methyl-2H-isothiazool-3-on (CAS 2682-20-4)))
EC50 Daphnia 1	0,16 mg/l (48h, mixture 5-chloro-2- methyl-2H-isothiazool-3-on (CAS 26172-55-4) and 2- methyl-2H-isothiazool-3-on (CAS 2682-20-4))
EC50 Daphnia 2	0,1 (48h, mixture 5-chloro-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)

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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) (INCI: METHYLISOTHIAZOLINONE) (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 Daphnia 1	0,93 - 1,9 mg/l (48h, OECD 202)
EC50 Daphnia 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

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Persistence and degradability	Not established. The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.
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Sodium cumenesulfonate (INCI: SODIUM CUMENESULFONATE) (15763-76-5; (28348-53-0))

Biodegradation	> 60 % (6d, OECD TG 301B)
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(R)-p-mentha-1,8-diene (D-Limonene) (INCI: D-LIMONENE) (5989-27-5)

Biodegradation	72 - 83,4 % (OECD 301 B)
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2-Methyl-4-isothiazolin-3-one(MI) (INCI: METHYLISOTHIAZOLINONE) (2682-20-4)

Biodegradation	> 70 % (OECD 309)
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12.3. Bioaccumulative potential

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Bioaccumulative potential	Not established.
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Alcohol(C12-18)EO(>5-10) (INCI: C12-18 PARETH-7) (68213-23-0)

Log Kow	4,38
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Sodium cumenesulfonate (INCI: SODIUM CUMENESULFONATE) (15763-76-5; (28348-53-0))

Log Kow	-1,5
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(R)-p-mentha-1,8-diene (D-Limonene) (INCI: D-LIMONENE) (5989-27-5)

Log Kow	4,38
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5-chloro-2-methyl-4-isothiazoline-3-one(MCI)(KathonCG) (INCI: METHYLCHLOROISOTHIAZOLINONE) (26172-55-4)

Log Kow 0,401

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

Bioconcentration factor (BCF REACH) 3,16

Log Kow <= 0,05 (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. Other adverse effects

Additional information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : 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. Flush residue with large amounts of water.

Ecology - waste materials : Avoid release to the environment.

European List of Waste (LoW) code : 20 01 29* - detergents containing dangerous substances

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	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. Transport in bulk according to Annex II of Marpol and the IBC Code

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

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Allergenic fragrances > 0,01%:

Citral (INCI: CITRAL)

(R)-p-mentha-1,8-diene (D-Limonene) (INCI: D-LIMONENE)

Detergent Regulation : Labelling of contents:

Component	%
phosphates, non-ionic surfactants	<5%
METHYLCHLOROISOTHIAZOLINONE	
METHYLISOTHIAZOLINONE	
BENZISOTHIAZOLINONE	
SODIUM PYRITHIONE	
perfumes	
CITRAL	
D-LIMONENE	

15.1.2. National regulations

No additional information available

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	Change	Comments
	SDS Ref.	Modified	
1.2	Relevant identified uses	Modified	
2.2	Labelling according to Regulation (EC) No. 1272/2008 [CLP]	Modified	
3.2	Composition/information on ingredients	Modified	
4.2	Most important symptoms and effects, both acute and delayed	Modified	
11.1	Toxicological information on the ingredients	Modified	
12.1	Ecotoxicity	Modified	
15.1	Detergent Regulation : Labelling of contents	Modified	

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Abbreviations and acronyms:

ABM: Algemene Beoordelings Methodiek (NL) / ADR: Accord Européen relatif au transport international des marchandises dangereuses par route) / ALG: Allergen / AQTX: Aquatic Toxicity / Atm: Atmosphere (unit of pressure) / bw: bodyweight / C: Ceiling / CAR: Carcinogenic Effects / CAS No: Chemical Abstracts Service Number (see ACS – American Chemical Society) / CMRs: Carcinogenic, Mutagenic or toxic to Reproduction (substances) / CSR: Chemical Safety Report / Cc (cm³): Cubic Centimeter / DNEL: Derived No-Effect Level / EC50: half maximal effective concentration / ED50: Effective Dose 50 / ET50: Exposure Time 50 / I.V.: Intravenous / Kg: Kilogram / LC: Lethal Concentration / LC50: Median Lethal Concentration / LCLO: Lowest Lethal Airborne Concentration Tested (see also LC50, LD50) / LD: Lethal Dose / LD50: Median Lethal Dose LDLO: Lowest Lethal Dose Tested (see also LC50, LD50) / MAC: Maximum Allowable Concentration / MAK: Maximale Arbeitsplatz-Konzentration (Germany, Maximum Workplace Concentration, see OEL) / MSDS: Material Safety Data Sheet / NOAEL: No Observed Adverse Effect Level / NOEL: No Observable Effect Level / OEL: Occupational Exposure Limits / PBTs: Persistent, Bioaccumulative and Toxic substances / PEC: Predicted Environmental Concentration / PNEC: Predicted No-Effect Concentration / REACH: Registration, Evaluation, Authorisation and Restriction of Chemical Substances / STEL: Short-Term Exposure Limit / STEV: Short-Term Exposure Value / STP: Sewage Treatment Plant TLM: Threshold Limit, Median / TLV-C: Threshold Limit Value-Ceiling / TLV@: Threshold Limit Value / TWA: Time-Weighted Average / WGK: Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act) / g/gms: Grams / kJ/mol: Kilojoules per mole / kPa: KiloPascal (unit of pressure) / m³: Cubic Meter / mg: Milligram / ml: Milliliter / ml Hg: Milliliters of Mercury / n.o.s.: Not Otherwise Specified / nm: nanometer / ppb: Parts Per Billion / ppb: parts per hundred (= percent) / ppm: Parts Per Million / ppt: parts per trillion / vPvBs: Very Persistent and Very Bioaccumulative substances

Data sources : 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.

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. 2 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 2
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Acute Tox. Not classified (Dermal)	Acute toxicity (dermal) Not classified
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT SE Not classified	Specific target organ toxicity (single exposure) Not classified
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.

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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.
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 D-LIMONENE, METHYLCHLOROISOTHIAZOLINONE, METHYLISOTHIAZOLINONE. May produce an allergic reaction.

Full text of use descriptors

AISE SPERC 8a.1.a.v2	Wide Dispersive Use in 'Down the Drain' cleaning and maintenance products (Consumers and Professionals)
ERC8a	Wide dispersive indoor use of processing aids in open systems
PC35	Washing and cleaning products (including solvent based products)
PROC10	Roller application or brushing
PROC11	Non-industrial spraying
PROC8b	Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
SU21	Consumer uses: Private households (= general public = consumers)
SU22	Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

SDS EU (REACH Annex II)

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.