

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

1.1. Product identifier

Product form	: Mixture
Product name	: James Stainspray
Product code	: 8700.0_76068RT80
Type of product	: Detergent
Vaporizer	: Aerosol
Product group	: Blend

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
Professional uses; (Trigger) spraying (Association ref code: AISE_SUMI_PW_11_1_G)	SU22, PC35, PROC11, 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
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)	
Israel	Israel Poison Information Center Rambam Health Care Campus	6 Ha'Aliya Street 31096 Haifa	+972 4 854 1900	
Malta	Medicines & Poisons Info Office	Mater Dei Hospital MSD Msida	+356 2545 6504	
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]

Aerosol, Category 1	H222;H229
Serious eye damage/eye irritation, Category 2	H319
Specific target organ toxicity — Single exposure, Category 3, Narcosis	H336
Full text of H statements : see section 16	

Adverse physicochemical, human health and environmental effects

No additional information available

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2.2. Label elements

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

Hazard pictograms (CLP)



GHS02

GHS07

Signal word (CLP)

: Danger

Hazardous ingredients

: BUTYL ACETATE; ETHYL ACETATE; METHOXYISOPROPANOL

Hazard statements (CLP)

: H222 - Extremely flammable aerosol.
H229 - Pressurised container: May burst if heated.
H319 - Causes serious eye irritation.
H336 - May cause drowsiness or dizziness.

Precautionary statements (CLP)

: P102 - Keep out of reach of children.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P251 - Do not pierce or burn, even after use.
P261 - Avoid breathing mist, vapours.
P280 - Wear eye protection.
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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.
P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

EUH-statements

: EUH066 - Repeated exposure may cause skin dryness or cracking.

Intended for general public

Child-resistant fastening

: Not applicable

Tactile warning

: Not applicable

2.3. Other hazards

No additional information available

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]
n-butyl acetate (INCI: BUTYL ACETATE)	(CAS-No.) 123-86-4 (EC-No.) 204-658-1 (EC Index-No.) 607-025-00-1 (REACH-no) 01-2119485493-29	20 – 30	Flam. Liq. 3, H226 STOT SE 3, H336
ethyl acetate (INCI: ETHYL ACETATE)	(CAS-No.) 141-78-6 (EC-No.) 205-500-4 (EC Index-No.) 607-022-00-5 (REACH-no) 01-2119475103-X	20 – 30	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
1-methoxy-2-propanol; monopropylene glycol methyl ether (INCI: METHOXYISOPROPANOL) substance with a Community workplace exposure limit substance with national workplace exposure limit(s) (GB, IE, MT)	(CAS-No.) 107-98-2 (EC-No.) 203-539-1 (EC Index-No.) 603-064-00-3 (REACH-no) 01-2119457435-35	10 – 20	Flam. Liq. 3, H226 STOT SE 3, H336
2,6-di-tert-butyl-p-cresol (INCI: BHT) substance with national workplace exposure limit(s) (GB, IE)	(CAS-No.) 128-37-0 (EC-No.) 204-881-4 (REACH-no) 01-2119555270-46	< 0,1	Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of H-statements: see section 16

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SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Cough. Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Repeated exposure may cause skin dryness or cracking.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Direct contact with the eyes is likely to be irritating. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

Symptoms/effects after inhalation	: Shortness of breath. May cause drowsiness or dizziness.
Symptoms/effects after skin contact	: Not expected to present a significant skin hazard. Repeated exposure may cause skin dryness or cracking.
Symptoms/effects after eye contact	: Eye irritant upon direct contact. Blurred vision. Burning sensation. Tears. Redness. Causes serious eye irritation.
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	: Extremely flammable aerosol.
Explosion hazard	: Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.

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. DO NOT fight fire when fire reaches explosives. Evacuate area.
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. No open flames. No smoking. Isolate from fire, if possible, without unnecessary risk. Remove ignition sources. Use special care to avoid static electric charges.
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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. Avoid breathing dust/fume/gas/mist/vapours/spray.
Emergency procedures	: Ventilate area.

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up	: Provide adequate ventilation to minimize dust and/or vapour concentrations. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.
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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

Additional hazards when processed	: Hazardous waste due to potential risk of explosion. Do not pierce or burn, even after use.
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Precautions for safe handling	: Normal precautions for the use of chemicals and cleaners should be taken care of. See information supplied by the manufacturer. No open flames. No smoking. Use only non-sparking tools. 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. Do not spray on an open flame or other ignition source. Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area.
Hygiene measures	: Do not eat, drink or smoke when using this product. Wash hands, forearms and face thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Proper grounding procedures to avoid static electricity should be followed.
Storage conditions	: Keep only in the original container in a cool, well ventilated place. Keep in fireproof place. Keep only in the original container in a cool, well ventilated place away from : Do not expose to temperatures exceeding 50 °C/ 122 °F. Keep container tightly closed.
Incompatible products	: Strong bases. Strong acids.
Incompatible materials	: Sources of ignition. Direct sunlight. Heat sources.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

n-butyl acetate (INCI: BUTYL ACETATE) (123-86-4)

EU - Occupational Exposure Limits

Local name	n-butyl acetate
Notes	(Ongoing)
Regulatory reference	SCOEL Recommendations

Ireland - Occupational Exposure Limits

Local name	Butyl acetate
OEL (8 hours ref) (mg/m ³)	710 mg/m ³
OEL (8 hours ref) (ppm)	150 ppm
OEL (15 min ref) (mg/m ³)	950 mg/m ³
OEL (15 min ref) (ppm)	200 ppm
Regulatory reference	Code of Practice for the Chemical Agents Regulations 2016

United Kingdom - Occupational Exposure Limits

Local name	Butyl acetate
WEL TWA (mg/m ³)	724 mg/m ³
WEL TWA (ppm)	150 ppm
WEL STEL (mg/m ³)	966 mg/m ³
WEL STEL (ppm)	200 ppm
Regulatory reference	EH40. HSE

ethyl acetate (INCI: ETHYL ACETATE) (141-78-6)

EU - Occupational Exposure Limits

Local name	Ethyl acetate
IOELV TWA (mg/m ³)	734 mg/m ³
IOELV TWA (ppm)	200 ppm
IOELV STEL (mg/m ³)	1486 mg/m ³
IOELV STEL (ppm)	400 ppm
Regulatory reference	COMMISSION DIRECTIVE (EU) 2017/164

Ireland - Occupational Exposure Limits

Local name	Ethyl acetate
OEL (8 hours ref) (ppm)	200 ppm
OEL (15 min ref) (ppm)	400 ppm

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Regulatory reference	Code of Practice for the Chemical Agents Regulations 2016
United Kingdom - Occupational Exposure Limits	
Local name	Ethyl acetate
WEL TWA (ppm)	200 ppm
WEL STEL (ppm)	400 ppm
Regulatory reference	EH40. HSE
1-methoxy-2-propanol; monopropylene glycol methyl ether (INCI: METHOXYISOPROPANOL) (107-98-2)	
EU - Occupational Exposure Limits	
Local name	1-Methoxypropanol-2
IOELV TWA (mg/m ³)	375 mg/m ³
IOELV TWA (ppm)	100 ppm
IOELV STEL (mg/m ³)	568 mg/m ³
IOELV STEL (ppm)	150 ppm
Notes	Skin
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
Ireland - Occupational Exposure Limits	
Local name	Propylene glycol monomethyl ether
OEL (8 hours ref) (mg/m ³)	375 mg/m ³
OEL (8 hours ref) (ppm)	100 ppm
OEL (15 min ref) (mg/m ³)	568 mg/m ³
OEL (15 min ref) (ppm)	150 ppm
Notes (IE)	IOELV
Regulatory reference	Code of Practice for the Chemical Agents Regulations 2016
Malta - Occupational Exposure Limits	
Local name	1-Methoxypropanol-2
OEL TWA (mg/m ³)	375 mg/m ³
OEL TWA (ppm)	100 ppm
OEL STEL (mg/m ³)	568 mg/m ³
OEL STEL (ppm)	150 ppm
Regulatory reference	S.L.424.24
United Kingdom - Occupational Exposure Limits	
Local name	1-Methoxypropan-2-ol
WEL TWA (mg/m ³)	375 mg/m ³
WEL TWA (ppm)	100 ppm
WEL STEL (mg/m ³)	560 mg/m ³
WEL STEL (ppm)	150 ppm
Remark (WEL)	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. HSE
2,6-di-tert-butyl-p-cresol (INCI: BHT) (128-37-0)	
Ireland - Occupational Exposure Limits	
Local name	2,6-Ditertiary-butyl-para- cresol
OEL (8 hours ref) (mg/m ³)	10 mg/m ³
Regulatory reference	Code of Practice for the Chemical Agents Regulations 2016
United Kingdom - Occupational Exposure Limits	
Local name	2,6-Di-tert-butyl-p-cresol

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WEL TWA (mg/m ³)	10 mg/m ³
Regulatory reference	EH40. HSE
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DNEL/DMEL (additional information)	
See http	//www.dguv.de/ifa/de/gestis/limit_values/index.jsp: Information on ingredients.
n-butyl acetate (INCI: BUTYL ACETATE) (123-86-4)	
DNEL/DMEL (Workers)	
Acute - systemic effects, inhalation	960 mg/m ³
Acute - local effects, inhalation	960 mg/m ³
Long-term - systemic effects, inhalation	480 mg/m ³
Long-term - local effects, inhalation	480 mg/m ³
DNEL/DMEL (General population)	
Acute - systemic effects, inhalation	859,7 mg/m ³
Acute - local effects, inhalation	859,7 mg/m ³
Long-term - systemic effects, inhalation	102,34 mg/m ³
Long-term - local effects, inhalation	102,34 mg/m ³
PNEC (Water)	
PNEC aqua (freshwater)	0,18 mg/l
PNEC aqua (marine water)	0,018 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0,981 mg/kg dwt
PNEC sediment (marine water)	0,0981 mg/kg dwt
PNEC (Soil)	
PNEC soil	0,0903 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	0,36 mg/l
ethyl acetate (INCI: ETHYL ACETATE) (141-78-6)	
DNEL/DMEL (Workers)	
Acute - systemic effects, dermal	< mg/kg bodyweight/day
Acute - systemic effects, inhalation	1468 mg/m ³
Acute - local effects, inhalation	1468 mg/m ³
Long-term - systemic effects, dermal	63 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	34 mg/m ³
Long-term - local effects, inhalation	734 mg/m ³
DNEL/DMEL (General population)	
Acute - systemic effects, inhalation	734
Acute - local effects, inhalation	734 mg/m ³
Long-term - systemic effects, oral	4,5 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	367 mg/m ³
Long-term - systemic effects, dermal	37 mg/kg bodyweight/day
Long-term - local effects, inhalation	367 mg/m ³
PNEC (Water)	
PNEC aqua (freshwater)	0,26 mg/l
PNEC aqua (marine water)	0,026 mg/l

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ethyl acetate (INCI: ETHYL ACETATE) (141-78-6)

PNEC (Sediment)

PNEC sediment (freshwater)	0,34 mg/kg dwt
PNEC sediment (marine water)	0,034 mg/kg dwt

PNEC (Soil)

PNEC soil	0,22 mg/kg dwt
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PNEC (STP)

PNEC sewage treatment plant	650 mg/l
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1-methoxy-2-propanol; monopropylene glycol methyl ether (INCI: METHOXYISOPROPANOL) (107-98-2)

DNEL/DMEL (Workers)

Acute - local effects, inhalation	553,5 mg/m ³
Long-term - systemic effects, dermal	50,6 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	369 mg/m ³

DNEL/DMEL (General population)

Long-term - systemic effects, oral	3,3 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	43,9 mg/m ³
Long-term - systemic effects, dermal	18,1 mg/kg bodyweight/day

PNEC (Water)

PNEC aqua (freshwater)	10 mg/l
PNEC aqua (marine water)	1 mg/l

PNEC (Sediment)

PNEC sediment (freshwater)	41,6 mg/kg dwt
PNEC sediment (marine water)	4,17 mg/kg dwt

PNEC (Soil)

PNEC soil	2,47 mg/kg dwt
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PNEC (STP)

PNEC sewage treatment plant	100 mg/l
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8.2. Exposure controls

Personal protective equipment:

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

Hand protection:

protective gloves. Chemical resistant gloves (according to European standard NF EN 374 or equivalent). By prolonged exposure : Short term exposure. If there is a risk of liquid being splashed : Time of penetration is to be checked with the glove producer

Eye protection:

Wear eye/face protection. Chemical goggles or safety glasses. Standard. EN 166

Skin and body protection:

No special clothing/skin protection equipment is recommended under normal conditions of use. If repeated skin contact or contamination of clothing is likely, protective clothing should be worn

Respiratory protection:

No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation. In case of inadequate ventilation wear respiratory protection. Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Gas mask with filter type. Type A - High-boiling (>65 °C) organic compounds

Personal protective equipment symbol(s):



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Other information:

Do not eat, drink or smoke when using this product. The information in this section applies to the undiluted product. Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Colourless.
Odour	: characteristic.
Odour threshold	: No data available
pH	: Not applicable
Relative evaporation rate (butylacetate=1)	: 6,2
Melting point	: No data available
Freezing point	: No data available
Boiling point	: -140
Flash point	: -4 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Extremely flammable aerosol.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 0,897 g/cm ³ (20°C)
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: 1,115 mm ² /s
Viscosity, dynamic	: 1 mPa·s (20°C)
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

VOC content	: VOC content g/l (EU / CH): 788.4 / 788.4
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SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions.

10.2. Chemical stability

Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Extreme risk of explosion by shock, friction, fire or other sources of ignition.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Heat. Sparks. Open flame. Overheating.

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

n-butyl acetate (INCI: BUTYL ACETATE) (123-86-4)

LD50 oral rat	10760 mg/kg
LD50 oral	10700 mg/kg bodyweight
LD50 dermal rabbit	> 14000 mg/kg
LD50 dermal	> 14100 mg/kg bodyweight

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LC50 inhalation rat (mg/l)	> 20 mg/l/4h
LC50 inhalation rat (Dust/Mist - mg/l/4h)	> 21100 mg/l/4h

ethyl acetate (INCI: ETHYL ACETATE) (141-78-6)

LD50 oral	4935 mg/kg (rabbit)
LD50 dermal rabbit	> 5000 mg/kg
LD50 dermal	> 18000 mg/kg bodyweight
LC50 inhalation rat (mg/l)	22,5 mg/l (6h)
LC50 inhalation rat (Dust/Mist - mg/l/4h)	57700 mg/l/4h

1-methoxy-2-propanol; monopropylene glycol methyl ether (INCI: METHOXYISOPROPANOL) (107-98-2)

LD50 oral rat	4016 – 5000 mg/kg
LD50 oral	3739 mg/kg bodyweight
LD50 dermal rabbit	13500 mg/kg
LD50 dermal	> 2000 mg/kg bodyweight
LC50 inhalation rat (mg/l)	6 mg/l/4h
LC50 inhalation rat (Dust/Mist - mg/l/4h)	> 26315 mg/l/4h

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

LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 5000 mg/kg

Skin corrosion/irritation	: Not classified pH: Not applicable
Additional information	: Repeated exposure may cause skin dryness or cracking.
Serious eye damage/irritation	: Causes serious eye irritation. pH: Not applicable
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	: May cause drowsiness or dizziness.
STOT-repeated exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified
Additional information	: Based on available data, the classification criteria are not met

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Vaporizer	Aerosol
Viscosity, kinematic	1,115 mm ² /s
Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met. With the product as such no toxicological tests have been done. According to the criteria of art. 3 from (EC) Nr. 1272/2008 [CLP] this product is classified as mentioned in section 2. Components that are toxic are mentioned in section 3.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: With the product as such no ecological tests have been done. According to the criteria of art. 3 from (EC) Nr. 1272/2008 [CLP] this product is classified concerning the environment as mentioned in section 2. Components that are dangerous to the environment are mentioned in section 3.
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Hazardous to the aquatic environment, short-term (acute) : Not classified

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

n-butyl acetate (INCI: BUTYL ACETATE) (123-86-4)

LC50 fish 1	18 (96h, Pimephales promelas)
EC50 Daphnia 1	44 (48h)
EC50 other aquatic organisms 1	647,7
EC50 other aquatic organisms 2	648 mg/l IC50 algea (72 h) mg/l

ethyl acetate (INCI: ETHYL ACETATE) (141-78-6)

LC50 fish 1	> 230 mg/l (96h, Pimephales Promelas)
EC50 Daphnia 1	> 164 (24h)
EC50 other aquatic organisms 1	717 mg/l EC50 waterflea (48 h)
EC50 other aquatic organisms 2	3300 mg/l IC50 algea (72 h) mg/l
NOEC chronic crustacea	> 100 mg/l (72h, Daphnia magna)

1-methoxy-2-propanol; monopropylene glycol methyl ether (INCI: METHOXYISOPROPANOL) (107-98-2)

LC50 fish 1	> 4000 (4000 – 10000) mg/l (96h, Leuciscus idus)
LC50 fish 2	20800 mg/l (96h, Pimephales promelas)
EC50 Daphnia 1	23300 mg/l (48h)
EC50 Daphnia 2	> 500 mg/l (48h)
EC50 other aquatic organisms 1	23300 mg/l EC50 waterflea (48 h)
EC50 other aquatic organisms 2	> 500 mg/l IC50 algea (72 h) mg/l
EC50 72h algae (1)	> 1000 mg/l (72h, Pseudokirchneriella subcapitata)

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

EC50 Daphnia 1	0,61 mg/l (48h)
EC50 other aquatic organisms 1	> 10000 mg/l (3h, bacteriaceae)

12.2. Persistence and degradability

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Persistence and degradability	Not established.
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1-methoxy-2-propanol; monopropylene glycol methyl ether (INCI: METHOXYISOPROPANOL) (107-98-2)

Biodegradation	> 70 % (OECD 301 E)
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12.3. Bioaccumulative potential

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Bioaccumulative potential	Not established.
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n-butyl acetate (INCI: BUTYL ACETATE) (123-86-4)

Partition coefficient n-octanol/water (Log Pow)	2,3
Partition coefficient n-octanol/water (Log Kow)	1,85

ethyl acetate (INCI: ETHYL ACETATE) (141-78-6)

Partition coefficient n-octanol/water (Log Pow)	0,68
Partition coefficient n-octanol/water (Log Kow)	0,86

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1-methoxy-2-propanol; monopropylene glycol methyl ether (INCI: METHOXYISOPROPANOL) (107-98-2)

Partition coefficient n-octanol/water (Log Pow)	-0,437
Partition coefficient n-octanol/water (Log Kow)	-0,49

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

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

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. Wash away remainder with plenty of water.
Additional information	: Flammable vapours may accumulate in the container.
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				
UN 1950	UN 1950	UN 1950	UN 1950	UN 1950
14.2. UN proper shipping name				
AEROSOLS	AEROSOLS	Aerosols, flammable	AEROSOLS	AEROSOLS
Transport document description				
UN 1950 AEROSOLS, 2.1, (D)	UN 1950 AEROSOLS, 2.1	UN 1950 Aerosols, flammable, 2.1	UN 1950 AEROSOLS, 2.1	UN 1950 AEROSOLS, 2.1
14.3. Transport hazard class(es)				
2.1	2.1	2.1	2.1	2.1
				
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

Classification code (ADR)	: 5F
Special provisions (ADR)	: 190, 327, 344, 625

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Limited quantities (ADR)	: 1I
Excepted quantities (ADR)	: E0
Packing instructions (ADR)	: P207
Special packing provisions (ADR)	: PP87, RR6, L2
Mixed packing provisions (ADR)	: MP9
Transport category (ADR)	: 2
Special provisions for carriage - Packages (ADR)	: V14
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV9, CV12
Special provisions for carriage - Operation (ADR)	: S2
Tunnel restriction code (ADR)	: D

Transport by sea

Special provisions (IMDG)	: 63, 190, 277, 327, 344, 381, 959
Packing instructions (IMDG)	: P207, LP200
Special packing provisions (IMDG)	: PP87, L2
EmS-No. (Fire)	: F-D
EmS-No. (Spillage)	: S-U
Stowage category (IMDG)	: None

Air transport

PCA Excepted quantities (IATA)	: E0
PCA Limited quantities (IATA)	: Y203
PCA limited quantity max net quantity (IATA)	: 30kgG
PCA packing instructions (IATA)	: 203
PCA max net quantity (IATA)	: 75kg
CAO packing instructions (IATA)	: 203
CAO max net quantity (IATA)	: 150kg
Special provisions (IATA)	: A145, A167, A802
ERG code (IATA)	: 10L

Inland waterway transport

Classification code (ADN)	: 5F
Special provisions (ADN)	: 190, 327, 344, 625
Limited quantities (ADN)	: 1 L
Excepted quantities (ADN)	: E0
Equipment required (ADN)	: PP, EX, A
Ventilation (ADN)	: VE01, VE04
Number of blue cones/lights (ADN)	: 1

Rail transport

Classification code (RID)	: 5F
Special provisions (RID)	: 190, 327, 344, 625
Limited quantities (RID)	: 1L
Excepted quantities (RID)	: E0
Packing instructions (RID)	: P207, LP200
Special packing provisions (RID)	: PP87, RR6, L2
Mixed packing provisions (RID)	: MP9
Transport category (RID)	: 2
Special provisions for carriage – Packages (RID)	: W14
Special provisions for carriage - Loading, unloading and handling (RID)	: CW9, CW12
Colis express (express parcels) (RID)	: CE2
Hazard identification number (RID)	: 23

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

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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

VOC content : VOC content g/l (EU / CH): 788.4 / 788.4

Detergent Regulation (648/2004/EC): Labelling of contents:	
Component	%
aliphatic hydrocarbons	≥30%
non-ionic surfactants	<5%
perfumes	

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

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.

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:

Section	Changed item	Change	Comments
	Revision date	Modified	
1.2	Relevant identified uses	Modified	
2.2	Precautionary statements (CLP)	Modified	
3	Composition/information on ingredients	Modified	
15.1	Waterbezwaarlijkheid (Water hazard class)	Modified	
16	Abbreviations and acronyms	Modified	

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

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CAS-No.	Chemical Abstract Service number
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
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
EC50	Median effective concentration
DNEL	Derived-No Effect Level
EC-No.	European Community number
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
IOELV	Indicative Occupational Exposure Limit Value
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
N.O.S.	Not Otherwise Specified
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
OEL	Occupational Exposure Limit
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
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
TRGS	Technical Rules for Hazardous Substances
SDS	Safety Data Sheet
VOC	Volatile Organic Compounds
WGK	Water Hazard Class
vPvB	Very Persistent and Very Bioaccumulative

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 : 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. None.

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Full text of H- and EUH-statements:	
Aerosol 1	Aerosol, Category 1
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.
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)
PROC11	Non-industrial spraying
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.