James Bandit

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Issue date: 24-6-2022 Revision date: 24-6-2022 Supersedes version of: 25-4-2017 Version: 12.0

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

1.1. Product identifier

Product form : Mixture
Name : James Bandit
UFI : V3UG-AW5T-7R01-YY3W
Product code : 8300.0_99999RV50
Type of product : Detergent
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,Industrial use
Industrial/Professional use spec : A.I.S.E. Guidance on Detergents Safe Use Mixture Information (SUMI): https://www.aise.eu/our-activities/regulatory-context/reach/safe-use-information-for-end-users.aspx
Use of the substance/mixture : Cleaner
Degreaser.
Function or use category : Cleaning/washing agents and additives

Title	Use descriptors
Professional uses; Manual application (Association ref code: AISE_SUMI_PW_19_1_G)	SU22, PC35, PROC19, ERC8a, AISE SPERC 8a.1.a.v2
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
Consumer use	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.
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	

Country	Organisation/Company	Address	Emergency number	Comment
Malta	Medicines & Poisons Info Office	Mater Dei Hospital MSD 2090 Msida	+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]

Flammable liquids, Category 2	H225
Serious eye damage/eye irritation, Category 1	H318

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) :

GHS02 GHS05

Signal word (CLP) : Danger

Contains : DIOXOLANE

Hazard statements (CLP) : H225 - Highly flammable liquid and vapour.
H318 - Causes serious eye damage.

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.
P233 - Keep container tightly closed.
P280 - Wear eye protection.
P305+P351+P338+P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
P403+P235 - Store in a well-ventilated place. Keep cool.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Intended for general public

Child-resistant fastening : Not applicable

Tactile warning : Applicable

2.3. Other hazards

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

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]
Dimethoxymethane (INCI: METHYLAL) substance with national workplace exposure limit(s) (GB, IE)	CAS-No.: 109-87-5 EC-No.: 203-714-2 REACH-no: 01-2119664781-31	≥ 30	Flam. Liq. 2, H225
1,3-dioxolane (INCI: DIOXOLANE) substance with national workplace exposure limit(s) (IE)	CAS-No.: 646-06-0 EC-No.: 211-463-5 EC Index-No.: 605-017-00-2	20 – 30	Flam. Liq. 2, H225 Eye Dam. 1, H318
Methanol (INCI: METHYL ALCOHOL) substance with national workplace exposure limit(s) (GB, IE, MT); substance with a Community workplace exposure limit	CAS-No.: 67-56-1 EC-No.: 200-659-6 EC Index-No.: 603-001-00-X REACH-no: 01-2119433307-44	0,1 – 1	Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 STOT SE 1, H370

Specific concentration limits:

Name	Product identifier	Specific concentration limits
Methanol (INCI: METHYL ALCOHOL)	CAS-No.: 67-56-1 EC-No.: 200-659-6 EC Index-No.: 603-001-00-X REACH-no: 01-2119433307-44	(3 ≤C < 10) STOT SE 2, H371 (10 ≤C < 100) STOT SE 1, H370

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 : Allow affected person to breathe fresh air. Allow the victim to rest.

First-aid measures after skin contact : Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash skin with mild soap and water. Repeated exposure may cause skin dryness or cracking. Wash contaminated clothing before reuse.

First-aid measures after eye contact : Rinse eyes with water as a precaution. 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. Call a physician immediately.

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 : Not expected to present a significant hazard under anticipated conditions of normal use.

Symptoms/effects after inhalation : Soar throat. Cough. Giddiness. Difficulty in breathing. 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.

Symptoms/effects after eye contact : Risk of serious damage to eyes. Blurred vision. Burning sensation. Redness, pain.

Symptoms/effects after ingestion : Dizziness, headaches, nausea. Abdominal pain. Vomiting. Diarrhea. May cause 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 : Highly flammable liquid and vapour. Vapours are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapours.
Explosion hazard : May form flammable/explosive vapour-air mixture.

5.3. Advice for firefighters

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

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

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Dispose in a safe manner in accordance with local/national regulations. 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. Dispose of in accordance with relevant local regulations.

6.4. Reference to other sections

See Section 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapours are flammable.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment.
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

8.1.1 National occupational exposure and biological limit values

Dimethoxymethane (INCI: METHYLAL) (109-87-5)	
Ireland - Occupational Exposure Limits	
Local name	Methylal
OEL TWA [1]	3100 mg/m³
OEL TWA [2]	1000 ppm
Regulatory reference	Code of Practice for the Chemical Agents Regulations 2016
United Kingdom - Occupational Exposure Limits	
Local name	Dimethoxymethane
WEL TWA (OEL TWA) [1]	3160 mg/m³
WEL TWA (OEL TWA) [2]	1000 ppm
WEL STEL (OEL STEL)	3950 mg/m³
WEL STEL (OEL STEL) [ppm]	1250 ppm
Regulatory reference	EH40. HSE

1,3-dioxolane (INCI: DIOXOLANE) (646-06-0)	
Ireland - Occupational Exposure Limits	
Local name	1,3-Dioxolane
OEL TWA [2]	20 ppm
Regulatory reference	Code of Practice for the Chemical Agents Regulations 2016

Methanol (INCI: METHYL ALCOHOL) (67-56-1)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Methanol
IOEL TWA	260 mg/m³
IOEL TWA [ppm]	200 ppm
Remark	skin
Regulatory reference	COMMISSION DIRECTIVE 2006/15/EC
Ireland - Occupational Exposure Limits	
Local name	Methanol
OEL TWA [1]	260 mg/m³
OEL TWA [2]	200 ppm
Regulatory reference	Code of Practice for the Chemical Agents Regulations 2016
Malta - Occupational Exposure Limits	
Local name	Methanol
OEL TWA	260 mg/m³
OEL TWA [ppm]	200 ppm
Regulatory reference	S.L.424.24

Methanol (INCI: METHYL ALCOHOL) (67-56-1)	
United Kingdom - Occupational Exposure Limits	
Local name	Methanol
WEL TWA (OEL TWA) [1]	266 mg/m³
WEL TWA (OEL TWA) [2]	200 ppm
WEL STEL (OEL STEL)	333 mg/m³
WEL STEL (OEL STEL) [ppm]	250 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. HSE

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

Dimethoxymethane (INCI: METHYLAL) (109-87-5)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	17,9 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	126,6 – 132 mg/m³
DNEL/DMEL (General population)	
Long-term - systemic effects,oral	18,1 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	31,5 mg/m³
Long-term - systemic effects, dermal	18,1 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	14,5 mg/l
PNEC aqua (marine water)	1,48 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	13,135 mg/kg dwt
PNEC sediment (marine water)	1,3135 mg/kg dwt
PNEC (Soil)	
PNEC soil	4,65 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	10000 mg/l

1,3-dioxolane (INCI: DIOXOLANE) (646-06-0)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, inhalation	19 mg/m³

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No additional information available

8.2.2. Personal protection equipment

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

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. EN 166

8.2.2.2. Skin protection

Skin and body protection:
If repeated skin contact or contamination of clothing is likely, protective clothing should be worn. Repeated dermal contact with material can lead to defatting of the skin.

Hand protection:
None under normal use. In case of repeated or prolonged contact wear gloves

Hand protection					
Type	**Material**	**Permeation**	**Thickness (mm)**	**Penetration**	**Standard**
Reusable gloves	Nitrile rubber (NBR), Neoprene rubber (HNBR)	6 (> 480 minutes)	>0.35 mm (NBR); >0.7 mm (HNBR)		EN 374-3
Disposable gloves	Nitrile rubber (NBR), Neoprene rubber (HNBR)	2 (> 30 minutes)	> 0.1 mm		EN 374-3

8.2.2.3. Respiratory protection

Respiratory protection:
Use only where ventilation can control exposures within occupational exposure standard(s). Ensure adequate ventilation, especially in confined areas. Mechanical ventilation is recommended. In the event of insufficient ventilation: Carry out operations in the open/under local exhaust/ventilation or with 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

Respiratory protection			
Device	**Filter type**	**Condition**	**Standard**
Gas mask	Type A - High-boiling (>65 °C) organic compounds	Vapour protection	EN 141

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Other information:
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	:	Solvents.
Odour threshold	:	No data available
pH	:	Not applicable
Relative evaporation rate (butylacetate=1)	:	No data available
Melting point	:	No data available
Freezing point	:	No data available
Boiling point	:	> 35 °C
Flash point	:	-18 °C
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	:	0,92 g/cm³ (20°C)
Solubility	:	Material insoluble in water.
Partition coefficient n-octanol/water (Log Pow)	:	No data available
Viscosity, kinematic	:	< 54,348 mm²/s
Viscosity, dynamic	:	< 50 mPa.s (20C)
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): 889.7 / 889.7

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

Highly flammable liquid and vapour. May form flammable/explosive vapour-air mixture. 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. Ignition sources. Sparks. Heat. Open flame.

10.5. Incompatible materials

Oxidizing agent. Not established.

10.6. Hazardous decomposition products

Thermal decomposition generates : fume. Carbon monoxide. Carbon dioxide. May release flammable gases.

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

Dimethoxymethane (INCI: METHYLAL) (109-87-5)	
LD50 oral rat	6453 mg/kg
LD50 dermal rabbit	> 5000 mg/kg

1,3-dioxolane (INCI: DIOXOLANE) (646-06-0)	
LD50 oral rat	> 2000 mg/kg (OECD 401)
LC50 Inhalation - Rat (Vapours)	68,4 mg/l/4h (OECD 403)

Methanol (INCI: METHYL ALCOHOL) (67-56-1)	
LD50 oral rat	1187 – 5628 mg/kg
LD50 oral	5628 mg/kg bodyweight
LD50 dermal rabbit	15800 – 17100 mg/kg
LD50 dermal	15800 mg/kg bodyweight
LC50 Inhalation - Rat	83 – 130 mg/l/4h
LC50 Inhalation - Rat (Dust/Mist)	85000 mg/l/4h

Skin corrosion/irritation : Not classified
pH: Not applicable
Additional information : Based on available data, the classification criteria are not met
Serious eye damage/irritation : Causes serious eye damage.
pH: Not applicable
Additional information : Based on available data, the classification criteria are not met
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

1,3-dioxolane (INCI: DIOXOLANE) (646-06-0)	
NOAEC (inhalation, rat, vapour)	0,903 mg/l (6h, OECD 413)

Methanol (INCI: METHYL ALCOHOL) (67-56-1)	
NOAEL (oral, rat)	466 mg/kg bodyweight
STOT-single exposure	Causes damage to organs.

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

James Bandit	
Viscosity, kinematic	< 54,348 mm²/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.

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

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

Dimethoxymethane (INCI: METHYLAL) (109-87-5)	
LC50 - Fish [1]	6990 mg/kg (96h, Pimephales promelas)
LC50 - Fish [2]	> 1000 (96h, Brachydanio rerio)
EC50 - Crustacea [1]	> 500 mg/l (48h)
EC50 - Crustacea [2]	> 1000 mg/l (48h)

1,3-dioxolane (INCI: DIOXOLANE) (646-06-0)	
LC50 - Fish [1]	> 100 mg/l (96h, OECD 203)
EC50 - Crustacea [1]	772 mg/l
ErC50 algae	> 877 mg/l (OECD 201)
NOEC chronic fish	546,3 mg/l
NOEC chronic crustacea	197,4 mg/l
NOEC chronic algae	877 mg/l

Methanol (INCI: METHYL ALCOHOL) (67-56-1)	
LC50 - Fish [1]	15400 mg/l (96h, Lepomis macrochirus))
LC50 - Other aquatic organisms [2]	> 10000 mg/l (Algae, 96h, Selenastrum capricornutum)
EC50 - Crustacea [1]	> 10000 mg/l (48h, OECD 202)
EC50 - Other aquatic organisms [1]	10000 mg/l EC50 waterflea (48 h)
EC50 - Other aquatic organisms [2]	12000 mg/l IC50 algea (72 h) mg/l
EC50 96h - Algae [1]	22000 mg/l (Pseudokirchneriella subcapitata, OECD 201)

12.2. Persistence and degradability

James Bandit	
Persistence and degradability	Not established.

Dimethoxymethane (INCI: METHYLAL) (109-87-5)	
Biodegradation	88 % (30d)

1,3-dioxolane (INCI: DIOXOLANE) (646-06-0)	
Biodegradation	3,7 % (35d, OECD 301D)

12.3. Bioaccumulative potential

James Bandit	
Bioaccumulative potential	Not established.

Dimethoxymethane (INCI: METHYLAL) (109-87-5)	
Partition coefficient n-octanol/water (Log Kow)	0,0000001

1,3-dioxolane (INCI: DIOXOLANE) (646-06-0)	
Partition coefficient n-octanol/water (Log Kow)	-0,37

Methanol (INCI: METHYL ALCOHOL) (67-56-1)	
Partition coefficient n-octanol/water (Log Pow)	-0,7
Partition coefficient n-octanol/water (Log Kow)	-0,69

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

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 : Handle empty containers with care because residual vapours are flammable.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

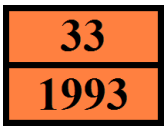
In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
UN 1993	UN 1993	UN 1993	UN 1993	UN 1993
14.2. UN proper shipping name				
FLAMMABLE LIQUID, N.O.S.	FLAMMABLE LIQUID, N.O.S.	Flammable liquid, n.o.s.	FLAMMABLE LIQUID, N.O.S.	FLAMMABLE LIQUID, N.O.S.
Transport document description				
UN 1993 FLAMMABLE LIQUID, N.O.S. (Dimethoxymethane ; 1,3-dioxolane), 3, II, (D/E)	UN 1993 FLAMMABLE LIQUID, N.O.S., 3, II	UN 1993 Flammable liquid, n.o.s., 3, II	UN 1993 FLAMMABLE LIQUID, N.O.S., 3, II	UN 1993 FLAMMABLE LIQUID, N.O.S., 3, II

ADR	IMDG	IATA	ADN	RID
14.3. Transport hazard class(es)				
3	3	3	3	3
				
14.4. Packing group				
II	II	II	II	II
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)	:	F1
Special provisions (ADR)	:	274, 601, 640D
Limited quantities (ADR)	:	1l
Excepted quantities (ADR)	:	E2
Packing instructions (ADR)	:	P001, IBC02, R001
Mixed packing provisions (ADR)	:	MP19
Portable tank and bulk container instructions (ADR)	:	T7
Portable tank and bulk container special provisions (ADR)	:	TP1, TP8, TP28
Tank code (ADR)	:	LGBF
Vehicle for tank carriage	:	FL
Transport category (ADR)	:	2
Special provisions for carriage - Operation (ADR)	:	S2, S20
Hazard identification number (Kemler No.)	:	33
Orange plates	:	
Tunnel restriction code (ADR)	:	D/E
EAC code	:	•3YE

Transport by sea

Special provisions (IMDG)	:	274
Limited quantities (IMDG)	:	1 L
Excepted quantities (IMDG)	:	E2
Packing instructions (IMDG)	:	P001
IBC packing instructions (IMDG)	:	IBC02
Tank instructions (IMDG)	:	T7
Tank special provisions (IMDG)	:	TP1, TP8, TP28
EmS-No. (Fire)	:	F-E
EmS-No. (Spillage)	:	S-E
Stowage category (IMDG)	:	B
MFAG-No	:	127

Air transport

PCA Excepted quantities (IATA)	:	E2
PCA Limited quantities (IATA)	:	Y341
PCA limited quantity max net quantity (IATA)	:	1L

PCA packing instructions (IATA)	:	353
PCA max net quantity (IATA)	:	5L
CAO packing instructions (IATA)	:	364
CAO max net quantity (IATA)	:	60L
Special provisions (IATA)	:	A3
ERG code (IATA)	:	3H

Inland waterway transport

Classification code (ADN)	:	F1
Special provisions (ADN)	:	274, 61, 64D
Limited quantities (ADN)	:	1 L
Excepted quantities (ADN)	:	E2
Carriage permitted (ADN)	:	T
Equipment required (ADN)	:	PP, EX, A
Ventilation (ADN)	:	VE01
Number of blue cones/lights (ADN)	:	1

Rail transport

Classification code (RID)	:	F1
Special provisions (RID)	:	274, 601, 640D
Limited quantities (RID)	:	1L
Excepted quantities (RID)	:	E2
Packing instructions (RID)	:	P001, IBC02, R001
Mixed packing provisions (RID)	:	MP19
Portable tank and bulk container instructions (RID)	:	T7
Portable tank and bulk container special provisions (RID)	:	TP1, TP8, TP28
Tank codes for RID tanks (RID)	:	LGBF
Transport category (RID)	:	2
Colis express (express parcels) (RID)	:	CE7
Hazard identification number (RID)	:	33

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

REACH Annex XVII (Restriction List)

Contains no REACH substances with Annex XVII restrictions

REACH Annex XIV (Authorisation List)

Contains no REACH Annex XIV substances

REACH Candidate List (SVHC)

Contains no substance on the REACH candidate list

PIC Regulation (Prior Informed Consent)

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.

POP Regulation (Persistent Organic Pollutants)

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

Ozone Regulation (1005/2009)

Contains no substance subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

VOC Directive (2004/42)

VOC content : VOC content g/l (EU / CH): 889.7 / 889.7

Detergent Regulation (648/2004)

Explosives Precursors Regulation (2019/1148)

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

Drug Precursors Regulation (273/2004)

Contains no substance subject to Regulation (EC) 273/2004 of the European Parliament and of the Council of 11 February 2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances.

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Indication of changes

Section	Changed item	Change	Comments
	Revision date	Modified	
	Issue date	Modified	
	Supersedes	Modified	
	SDS reference	Modified	
1.1	Product group	Added	
1.1	Product form	Added	
1.2	Industrial/Professional use spec	Added	
1.2	Main use category	Added	
2.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Modified	
2.2	Labelling according to Regulation (EC) No. 1272/2008 [CLP]	Modified	
4.1	First-aid measures after eye contact	Modified	
16	Abbreviations and acronyms	Added	
16	Data sources	Modified	

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

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

Data sources : Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals. REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. Regulation (EC) No. 648/2004 of 31 March 2004 on detergents.

Full text of H- and EUH-statements:	
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Flam. Liq. 2	Flammable liquids, Category 2
H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H318	Causes serious eye damage.
H331	Toxic if inhaled.
H370	Causes damage to organs.
H371	May cause damage to organs.
STOT SE 1	Specific target organ toxicity – single exposure, Category 1
STOT SE 2	Specific target organ toxicity – Single exposure, Category 2

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
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.