

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 02/07/2012 Revision date: 22/02/2024 Supersedes version of: 12/12/2023 Version: 5.0

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

1.1. Product identifier

Product form	: Mixture
Product name	: CHAMPION ECO FLOW DSG FLUID
Product code	: 5080
Type of product	: CHAMPION
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	: Industrial use, Professional use, Consumer use
Industrial/Professional use spec	: Non-dispersive use
	Used in closed systems
Function or use category	: Lubricants and additives

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

CHAMPION CHEMICALS N.V. Georges Gilliotstraat, 52 2620 Hemiksem, Antwerpen België T 0032 (0)3 870 00 00, F 0032 (0)3 870 00 99 msds@wolfoil.com, https://www.championlubes.com

1.4. Emergency telephone number

Emergency number

: 0032 (0)3 870 00 00

Country/Area	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9	+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	+972 4 854 1900	
Malta	Medicines & Poisons Info Office	Mater Dei Hospital Msida MSD 2090	+356 2545 6508	
Sweden	Giftinformationscentralen	Box 60 500 171 76 Stockholm	112 – begär Giftinformation +46 10 456 6700 (Från utlandet)	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Not classified

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Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

EUH-statements

: EUH208 - Contains 2-tetradecyloxirane, reaction products with boric acid. May produce an allergic reaction.

EUH210 - Safety data sheet available on request.

2.3. Other hazards

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

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Comments

: The mineral oils in the product contain < 3% DMSO extract (IP 346)

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Isooctadecanoic acid, reaction products with tetraethylenepentamine	EC-No.: 701-204-9 REACH-no: 01-2119960832- 33	1 – 1.49	Skin Irrit. 2, H315 Eye Irrit. 2, H319
Methyl-1H-benzotriazole	CAS-No.: 29385-43-1 EC-No.: 249-596-6 REACH-no: 01-2119979081- 35	0.1 – 0.99	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Repr. 2, H361 Aquatic Chronic 2, H411
2-tetradecyloxirane, reaction products with boric acid	EC-No.: 701-392-2 REACH-no: 01-2119976364- 28	0.1 – 0.99	Skin Sens. 1B, H317
2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol	CAS-No.: 1218787-32-6 EC-No.: 620-540-6 REACH-no: 01-2119510877- 33	0.01 – 0.1	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Skin Corr. 1C, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

Not expected to require first aid measures.
: Wash skin with mild soap and water.
In case of eye contact, immediately rinse with clean water for 10-15 minutes.
Do not induce vomiting. Rinse mouth. Get immediate medical advice/attention.

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4.2. Most important symptoms and effects, both acute and delayed			
Symptoms/effects after inhalation	: Not expected to present a significant inhalation hazard under anticipated conditions of normal use.		
Symptoms/effects after skin contact	: Not expected to present a significant skin hazard under anticipated conditions of normal use.		
Symptoms/effects after eye contact	: Not expected to present a significant eye contact hazard under anticipated conditions of normal use.		
Symptoms/effects after ingestion	: Not expected to present a significant ingestion hazard under anticipated conditions of normal use.		

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measure	es
5.1. Extinguishing media	
Suitable extinguishing media Unsuitable extinguishing media	Water fog. Foam. Powder. Dry chemical product.Do not use a heavy water stream.
5.2. Special hazards arising from the	e substance or mixture
No additional information available	
5.3. Advice for firefighters	
Precautionary measures fire Firefighting instructions Protection during firefighting	 Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers. Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release n	neasures

6.1. Personal precautions, protective equipment and emergency procedures		
6.1.1. For non-emergency personnel		
Protective equipment	: Wear suitable protective clothing and gloves.	
6.1.2. For emergency responders		
Protective equipment	: Wear suitable protective clothing and gloves.	
6.2. Environmental precautions		

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for conta	inment and cleaning up
For containment Methods for cleaning up Other information	 Impound and recover large spill by mixing it with inert granular solids. Detergent. Take up liquid spill into absorbent material sand, saw dust, kieselguhr. Spill area may be slippery. Use suitable disposal containers.
6.4. Reference to other sections	

No additional information available

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Avoid all unnecessary exposure. Both local exhaust and general room ventilation are usually required.
Handling temperature	: < 40 °C

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Hygiene measures	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
7.2. Conditions for safe storage, including a	any incompatibilities
Storage temperature Storage area	 : ≤ 40 °C : Store in dry, cool, well-ventilated area.
Germany Storage class (LGK, TRGS 510)	: LGK 10-13 - Other combustible and non-combustible substances
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

CHAMPION ECO FLOW DSG FLUID	
Belgium - Occupational Exposure Limits	
OEL TWA	5 mg/m³
OEL STEL	10 mg/m ³

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

No additional information available

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:

Safety glasses. Gloves.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

No additional information available

8.2.2.2. Skin protection

Skin and body protection:

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

Hand protection:

Permeation time: minimum >480min long term exposure; material / thickness [mm]: >0,35 mm. Nitrile rubber (NBR) /

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8.2.2.3. Respiratory protection

Respiratory protection:

No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation.

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

No additional information available

SECTION 9: Physical and chemical properties			
9.1. Information on basic physical and chemical properties			
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Physical state	: Liquid		
Colour	: brown.		
Appearance	: Oily liquid.		
Odour	: Characteristic.		
Odour threshold	: Not available		
Melting point	: Not available		
Freezing point	: Not available		
Boiling point	: Not available		
Flammability	: Not available		
Lower explosion limit	: Not available		
Upper explosion limit	: Not available		
Flash point	: > 180 °C (ASTM D92)		
Auto-ignition temperature	: Not available		
Decomposition temperature	: Not available		
рН	: Not available		
Viscosity, kinematic	: 33.6 mm²/s @ 40°C (ASTM D445)		
Solubility	: Slightly soluble, the product remains on the water surface.		
Partition coefficient n-octanol/water (Log Kow)	: Not available		
Vapour pressure	: Not available		
Vapour pressure at 50°C	: Not available		
Density	: 849 kg/m³ @15°C (ASTM D4052)		
Relative density	: Not available		
Relative vapour density at 20°C	: Not available		
Particle characteristics	: Not applicable		

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

None under normal conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal conditions.

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10.4. Conditions to avoid	
No data available.	
10.5. Incompatible materials	
Strong oxidizers. acids. Bases.	
10.6. Hazardous decomposition products	

None under normal conditions.

SECTION 11: Toxicological information

Acute toxicity (demial) Not classified Isocctadecanoic acid, reaction products witk > 6000 mg/kg LD50 oral rat > 6000 mg/kg Methyl-HH-benzotrlazole (29385-43-1) Z20 mg/kg (OECD Guideline 401) LD50 oral rat bib > 2000 mg/kg (OECD Guideline 402) Skin corrosion/riftation Not classified Isocctadecanoic acid, reaction products witk > 2000 mg/kg (OECD Guideline 402) Skin corrosion/riftation Not classified Isocctadecanoic acid, reaction products witk > teatsified Respiratory or skin sensitisation Serious sey damage/eye irritation, Category 2 Respiratory or skin sensitisation Not classified Isocctadecanoic acid, reaction products witk > toctassified Gern cell mutagenicity Not classified Gern cell mutagenicity Not classified Caricnogenicity > 1000 mg/kg	11.1. Information on hazard classes as defined	d in Regulation (EC) No 1272/2008
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STOT-single exposure : Not classified Isooctadecanoic acid, reaction products with tetraethylenepentamine NOAEL (oral, rat) > 1000 mg/kg bodyweight OECD 421 STOT-repeated exposure : Not classified Aspiration hazard : Not classified CHAMPION ECO FLOW DSG FLUID	NOAEL (animal/male, F1)	> 1000 mg/kg
Isooctadecanoic acid, reaction products with tetraethylenepentamine NOAEL (oral, rat) > 1000 mg/kg bodyweight OECD 421 STOT-repeated exposure : Not classified Aspiration hazard : Not classified CHAMPION ECO FLOW DSG FLUID	NOAEL (animal/female, F1)	> 1000 mg/kg
NOAEL (oral, rat) > 1000 mg/kg bodyweight OECD 421 STOT-repeated exposure : Not classified Aspiration hazard : Not classified CHAMPION ECO FLOW DSG FLUID	STOT-single exposure :	Not classified
STOT-repeated exposure : Not classified Aspiration hazard : Not classified CHAMPION ECO FLOW DSG FLUID	Isooctadecanoic acid, reaction products with	tetraethylenepentamine
Aspiration hazard : Not classified CHAMPION ECO FLOW DSG FLUID	NOAEL (oral, rat)	> 1000 mg/kg bodyweight OECD 421
CHAMPION ECO FLOW DSG FLUID	STOT-repeated exposure :	Not classified
	Aspiration hazard :	Not classified
Viscosity, kinematic 33.6 mm²/s @ 40°C (ASTM D445)	CHAMPION ECO FLOW DSG FLUID	
	Viscosity, kinematic	33.6 mm²/s @ 40°C (ASTM D445)

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11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information		
12.1. Toxicity		
Hazardous to the aquatic environment, short-term : Not classified (acute) Hazardous to the aquatic environment, long-term : Not classified (chronic)		
Isooctadecanoic acid, reaction products with	tetraethylenepentamine	
LC50 - Fish [1]	> 1000 mg/l OECD 203, Pimephales promelas	
EC50 - Crustacea [1]	> 1000 mg/l OECD 202, Daphnia magna	
EC50 72h - Algae [1]	94 mg/l OECD 201	
NOEC chronic crustacea	> 32 mg/l @21d	
NOEC chronic algae	23 mg/l @96h	
2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol (1218787-32-6)	
LC50 - Fish [1]	0.1 mg/l Brachydanio rerio	
EC50 - Crustacea [1]	0.043 mg/l Daphnia magna	
EC50 72h - Algae [1]	0.0053 mg/l Pseudokirchneriella subcapitata	
NOEC chronic algae	0.0156 mg/l @3DY (Pseudokirchneriella subcapitata)	
Methyl-1H-benzotriazole (29385-43-1)		
LC50 - Fish [1]	25.5 mg/l @4d (Pimephales promelas)	
LC50 - Fish [2]	65 mg/l @4d (Brachydanio rerio)	
LC50 - Other aquatic organisms [1]	55 mg/l @4d (Cyprinodon variegatus)	
EC50 - Crustacea [1]	87.4 mg/l @2d (Daphnia magna)	
EC50 - Crustacea [2]	8.58 mg/l @2d (Daphnia galeata)	
EC50 72h - Algae [1]	62 mg/l @3d (Scenedesmus quadricauda)	
NOEC chronic crustacea	18.4 mg/l @21d (Daphnia magna)	
NOEC chronic algae	30 mg/l	
2-tetradecyloxirane, reaction products with bo	pric acid	
LC50 - Fish [1]	> 100 mg/l Oncorhynchus mykiss	
EC50 - Crustacea [1]	> 100 mg/l Daphnia magna	
EC50 72h - Algae [1]	> 100 mg/l Selenastrum capricomutum	
NOEC chronic crustacea	10 mg/l Daphnia magna	
12.2. Persistence and degradability		
CHAMPION ECO FLOW DSG FLUID		
Persistence and degradability	Not soluble in water, so only minimally biodegradable.	
Isooctadecanoic acid, reaction products with tetraethylenepentamine		
Persistence and degradability	Not readily biodegradable.	

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Isooctadecanoic acid, reaction products with tetraethylenepentamine		
Biodegradation	21.8 % @28d, OECD 301B	
2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol (1218787-32-6)	
Persistence and degradability	Rapidly degradable	
BOD (% of ThOD)	63 % ThOD	
Methyl-1H-benzotriazole (29385-43-1)		
Persistence and degradability	Rapidly degradable	
Biodegradation	4 % @28d (OECD TG 301 F)	
2-tetradecyloxirane, reaction products with bo	pric acid	
Persistence and degradability	Not readily biodegradable	
Biodegradation	26.7 % @28d	
12.3. Bioaccumulative potential		
Isooctadecanoic acid, reaction products with	tetraethylenepentamine	
Partition coefficient n-octanol/water (Log Pow)	> 9.36	
2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol (1218787-32-6)	
BCF - Fish [1]	110.2 mg/kg	
Partition coefficient n-octanol/water (Log Kow)	3.6	
Methyl-1H-benzotriazole (29385-43-1)		
Partition coefficient n-octanol/water (Log Kow)	≥ 1.079 – ≤ 1.083 @25°C	
2-tetradecyloxirane, reaction products with bo	pric acid	
Partition coefficient n-octanol/water (Log Kow)	9.4	
12.4. Mobility in soil		
Isooctadecanoic acid, reaction products with tetraethylenepentamine		
Ecology - soil	Adsorbs into the soil.	
12.5. Results of PBT and vPvB assessment		
No additional information available		
12.6. Endocrine disrupting properties		
No additional information available		
12.7. Other adverse effects		
No additional information available		

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Additional information

: Dispose in a safe manner in accordance with local/national regulations.

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SECTION 14: Transport information	
In accordance with ADR / IMDG / IATA / ADN / RI	
14.1. UN number or ID number	
Not regulated for transport	
14.2. UN proper shipping name	
Proper Shipping Name (ADR) Proper Shipping Name (IMDG) Proper Shipping Name (IATA) Proper Shipping Name (ADN) Proper Shipping Name (RID)	 Not applicable Not applicable Not applicable Not applicable Not applicable
14.3. Transport hazard class(es)	
ADR Transport hazard class(es) (ADR)	: Not applicable
IMDG Transport hazard class(es) (IMDG)	: Not applicable
IATA Transport hazard class(es) (IATA)	: Not applicable
ADN Transport hazard class(es) (ADN)	: Not applicable
RID Transport hazard class(es) (RID)	: Not applicable
14.4. Packing group	
Packing group (ADR) Packing group (IMDG) Packing group (IATA) Packing group (ADN) Packing group (RID)	 Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable
14.5. Environmental hazards	
Other information	: No supplementary information available
14.6. Special precautions for user	
Overland transport No data available	
Transport by sea No data available	
Air transport No data available	
Inland waterway transport No data available	
Rail transport No data available	
14.7. Maritime transport in bulk according	to IMO instruments
Not applicable	

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SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

Explosives Precursors Regulation (2019/1148)

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

Drug Precursors Regulation (273/2004)

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

15.1.2. National regulations

Germany

Water hazard class (WGK): WGK 2, Significantly hazardous to water (Classification according to AwsHazardous Incident Ordinance (12. BImSchV): Is not subject of the Hazardous Incident Ordinance (12. BImSchV)	
Netherlands	
SZW-lijst van kankerverwekkende stoffen SZW-lijst van mutagene stoffen SZW-lijst van reprotoxische stoffen – Borstvoeding SZW-lijst van reprotoxische stoffen – Vruchtbaarheid	 None of the components are listed
SZW-lijst van reprotoxische stoffen – Ontwikkeling	: None of the components are listed
15.2. Chemical safety assessment	

No chemical safety assessment has been carried out for the substance or the mixture by the supplier

SECTION 16: Other information

Indication of changes			
Section	Changed item	Change	Comments
	Supersedes	Modified	
	Revision date	Modified	
3	Composition/information on ingredients	Modified	

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Indication of changes			
Section	Changed item	Change	Comments
9.1	Flash point	Modified	
9.1	Density	Modified	
9.1	Viscosity, kinematic	Modified	

Abbreviations	and acronyms:
	ACGIH: American Conference of Governmental Industrial Hygienists
	TWA: Time Weighted Average
	TLV: Threshold Limit Value
	ASTM: American Society for Testing and Materials
	ADR: Accord Européen Relatif au Transport International des Marchandises Dangereuses par Route
	RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail
	ADNR: Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin
	IMDG: International Maritime Dangerous Goods
	ICAO: International Civil Aviation Organization
	IATA: International Air Transport Association
	STEL: Short Term Exposure Limit
	LD50: median Lethal Dose for 50% of subjects
	ATE: acute toxicity estimate
	LC50: median Lethal Concentration for 50% of subjects
	EC50: concentration producing 50% effect

Other information

: 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 MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

Full text of H- and EUH-statements:		
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1	
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1	
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2	
EUH208	Contains 2-tetradecyloxirane, reaction products with boric acid. May produce an allergic reaction.	
EUH210	Safety data sheet available on request.	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
H302	Harmful if swallowed.	

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Full text of H- and EUH-statements:	
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.
H361	Suspected of damaging fertility or the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
Repr. 2	Reproductive toxicity, Category 2
Skin Corr. 1C	Skin corrosion/irritation, Category 1, Sub-Category 1C
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1B	Skin sensitisation, category 1B

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.