



# WOLF ECOTECH 0W20 SP/RC D1-3

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
Issue date: 17/03/2022 Revision date: 26/09/2022 Supersedes version of: 14/06/2022 Version: 1.2

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : WOLF ECOTECH 0W20 SP/RC D1-3  
Product code : 16173  
Type of product : WOLF  
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

WOLF OIL CORPORATION N.V.  
Georges Gilliotstraat, 52  
2620 Hemiksem – Antwerpen  
België  
T 0032 (0)3 870 00 00 - F 0032 (0)3 870 00 99

#### 1.4. Emergency telephone number

Emergency number : 0032 (0)3 870 00 00

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

Not classified

##### 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 Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs, calcium salts. May produce an allergic reaction.  
EUH210 - Safety data sheet available on request.

#### 2.3. Other hazards

Contains no PBT/vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

#### Component

|  |   |
|--|---|
| Phenol, dodecyl-, branched (121158-58-5) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII<br>This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
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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 %

| Component                               |   |
|---|---|
| Phenol, dodecyl-, branched(121158-58-5) | The substance is included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is 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 |

## 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]  |
|--|---|-------------|--|
| Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)   | CAS-No.: 4259-15-8<br>EC-No.: 224-235-5                                 | 0.1 – 0.99  | Eye Dam. 1, H318<br>Aquatic Chronic 2, H411  |
| Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts   | CAS-No.: 68784-31-6<br>EC-No.: 272-238-5<br>REACH-no: 01-2119657973-23  | 0.1 – 0.99  | Eye Dam. 1, H318<br>Aquatic Chronic 2, H411  |
| Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts   | CAS-No.: 722503-68-6<br>EC-No.: 682-816-2                               | 0.1 – 0.99  | Skin Sens. 1B, H317  |
| Phenol, dodecyl-, branched substance listed as REACH Candidate (Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)) | CAS-No.: 121158-58-5<br>EC-No.: 310-154-3<br>REACH-no: 01-2119513207-49 | 0.01 – 0.03 | Skin Corr. 1C, H314<br>Eye Dam. 1, H318<br>Repr. 1A, H360F<br>Aquatic Acute 1, H400 (M=10)<br>Aquatic Chronic 1, H410 (M=10) |

### Specific concentration limits:

| Name   | Product identifier                      | Specific concentration limits   |
|--|---|---------------------------------|
| Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) | CAS-No.: 4259-15-8<br>EC-No.: 224-235-5 | ( 50 ≤C < 100) Eye Dam. 1, H318 |

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 after inhalation   | : Not expected to require first aid measures.                                   |
| First-aid measures after skin contact | : Wash skin with mild soap and water.   |
| First-aid measures after eye contact  | : In case of eye contact, immediately rinse with clean water for 10-15 minutes. |
| First-aid measures after ingestion    | : 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 measures

### 5.1. Extinguishing media

|                                |  |
|--------------------------------|--|
| Suitable extinguishing media   | : Water fog. Foam. Powder. Dry chemical product. |
| Unsuitable extinguishing media | : Do not use a heavy water stream.               |

### 5.2. Special hazards arising from the substance or mixture

No additional information available

### 5.3. Advice for firefighters

|                                |   |
|--------------------------------|---|
| Precautionary measures fire    | : Exercise caution when fighting any chemical fire.   |
| Firefighting instructions      | : Use water spray or fog for cooling exposed containers.  |
| 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

#### 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 containment and cleaning up

|                         |   |
|-------------------------|---|
| For containment         | : Impound and recover large spill by mixing it with inert granular solids.            |
| Methods for cleaning up | : Detergent. Take up liquid spill into absorbent material sand, saw dust, kieselguhr. |
| Other information       | : 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 any incompatibilities

Storage temperature : ≤ 40 °C  
Storage area : Store in dry, cool, well-ventilated area.

### 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

No additional information available

#### 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

Additional information : 5 mg/m<sup>3</sup> for oil mists (TWA, 8h-workday) recommended, based upon the ACGIH TLV (Analysis according to US NIOSH Method 5026, NIOSH Manual of Analytical Methods, 3rd Edition).

#### 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) /

##### 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

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### 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

|   |   |
|---|---|
| Physical state                                  | : Liquid  |
| Colour  | : Yellow-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   |
| Explosive limits                                | : Not available   |
| Lower explosion limit                           | : Not available   |
| Upper explosion limit                           | : Not available   |
| Flash point                                     | : > 150 °C @ ASTM D92   |
| Auto-ignition temperature                       | : Not available   |
| Decomposition temperature                       | : Not available   |
| pH  | : Not available   |
| Viscosity, kinematic                            | : 36 mm <sup>2</sup> /s @ 40°C                                |
| 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   | : 847 kg/m <sup>3</sup> @ 15°C                                |
| Relative density                                | : Not available   |
| Relative vapour density at 20 °C                | : Not available   |
| Particle characteristics                        | : Not applicable  |

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

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.

### 10.4. Conditions to avoid

No data available.

### 10.5. Incompatible materials

Strong oxidizers. acids. Bases.

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### 10.6. Hazardous decomposition products

None under normal conditions.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

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

#### Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) (4259-15-8)

|                    |              |
|--------------------|--------------|
| LD50 oral rat      | 3100 mg/kg   |
| LD50 dermal rabbit | > 5000 mg/kg |

Skin corrosion/irritation : Not classified  
Serious eye damage/irritation : Not classified  
Respiratory or skin sensitisation : Not classified  
Germ cell mutagenicity : Not classified  
Carcinogenicity : Not classified  
Reproductive toxicity : Not classified  
STOT-single exposure : Not classified  
STOT-repeated exposure : Not classified  
Aspiration hazard : Not classified

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|                      |                              |
|----------------------|------------------------------|
| Viscosity, kinematic | 36 mm <sup>2</sup> /s @ 40°C |
|----------------------|------------------------------|

### 11.2. Information on other hazards

#### 11.2.1. Endocrine disrupting properties

##### Component

|   |  |
|---|--|
| Phenol, dodecyl-, branched(121158-58-5) | The substance is identified for having endocrine disrupting properties but there is no additional data available |
|---|--|

#### 11.2.2. Other information

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : This product contains one or more components that have a branched alkylphenol impurity, which is very toxic for aquatic organisms (mentioned in chapter 3). The components containing this impurity, are tested and are not toxic for aquatic organisms. This is why the data from chapter 3 concerning the alkylphenol impurity cannot be used for the classification of the product regarding the aquatic toxicity.

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

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

#### Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) (4259-15-8)

|                      |  |
|----------------------|--|
| LC50 - Fish [1]      | 10 – 35 mg/l 96h Pimephales promelas (semi static) |
| LC50 - Fish [2]      | 1 – 5 mg/l   |
| EC50 - Crustacea [1] | 1 – 1.5 mg/l 48h Daphnia magna                     |

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### Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) (4259-15-8)

|                                    |  |
|------------------------------------|--|
| EC50 - Other aquatic organisms [1] | 1 – 5 mg/l 96h Pseudokirchneriella subcapitata |
|------------------------------------|--|

### 12.2. Persistence and degradability

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|                               |  |
|-------------------------------|--|
| Persistence and degradability | Not soluble in water, so only minimally biodegradable. |
|-------------------------------|--|

### Phenol, dodecyl-, branched (121158-58-5)

|                |                      |
|----------------|----------------------|
| Biodegradation | 25 % Sturm-test @28d |
|----------------|----------------------|

### 12.3. Bioaccumulative potential

#### Phenol, dodecyl-, branched (121158-58-5)

|                                     |          |
|-------------------------------------|----------|
| Bioconcentration factor (BCF REACH) | 2.9 @27d |
|-------------------------------------|----------|

|   |           |
|---|-----------|
| Partition coefficient n-octanol/water (Log Kow) | 7.1 @0,1d |
|---|-----------|

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Endocrine disrupting properties

#### Component

|   |  |
|---|--|
| Phenol, dodecyl-, branched(121158-58-5) | The substance is identified for having endocrine disrupting properties but there is no additional data 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.

## SECTION 14: Transport information

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

### 14.1. UN number or ID number

|               |                  |
|---------------|------------------|
| UN-No. (ADR)  | : Not applicable |
| UN-No. (IMDG) | : Not applicable |
| UN-No. (IATA) | : Not applicable |
| UN-No. (ADN)  | : Not applicable |
| UN-No. (RID)  | : Not applicable |

### 14.2. UN proper shipping name

|                             |                  |
|-----------------------------|------------------|
| Proper Shipping Name (ADR)  | : Not applicable |
| Proper Shipping Name (IMDG) | : Not applicable |
| Proper Shipping Name (IATA) | : Not applicable |
| Proper Shipping Name (ADN)  | : Not applicable |

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Proper Shipping Name (RID) : 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) : Not applicable

Packing group (IMDG) : Not applicable

Packing group (IATA) : Not applicable

Packing group (ADN) : Not applicable

Packing group (RID) : Not applicable

### 14.5. Environmental hazards

Dangerous for the environment : No

Marine pollutant : No

Other information : No supplementary information available

### 14.6. Special precautions for user

#### Overland transport

Not applicable

#### Transport by sea

Not applicable

#### Air transport

Not applicable

#### Inland waterway transport

Not applicable

#### Rail transport

Not applicable

### 14.7. Maritime transport in bulk according to IMO instruments

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



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### REACH Annex XIV (Authorisation List)

Contains no REACH Annex XIV substances

### REACH Candidate List (SVHC)

Contains a substance on the REACH candidate list: Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP) (EC 310-154-3, CAS 121158-58-5)

### 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.

### 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(s) listed on the Drug Precursors list (Regulation EC 273/2004 on drug precursors)

### 15.1.2. National regulations

#### Germany

Water hazard class (WGK) : WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1).  
Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

#### Netherlands

SZW-lijst van kankerverwekkende stoffen : Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts, Phenol, dodecyl-, branched are listed  
SZW-lijst van mutagene stoffen : Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts, Phenol, dodecyl-, branched are listed  
SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed  
SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : Phenol, dodecyl-, branched is listed  
SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed

#### Denmark

Danish National Regulations : Pregnant/breastfeeding women working with the product must not be in direct contact with the product

#### Switzerland

Storage class (LK) : LK 10/12 - Liquids

### 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 |          |

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### 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:

|                   |   |
|-------------------|---|
| 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 Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs, calcium salts. May produce an allergic reaction. |
| EUH210            | Safety data sheet available on request.   |
| Eye Dam. 1        | Serious eye damage/eye irritation, Category 1   |
| H314              | Causes severe skin burns and eye damage.  |
| H317              | May cause an allergic skin reaction.  |
| H318              | Causes serious eye damage.  |
| H360F             | May damage fertility.   |
| 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. 1A          | Reproductive toxicity, Category 1A  |
| Skin Corr. 1C     | Skin corrosion/irritation, Category 1, Sub-Category 1C  |

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### Full text of H- and EUH-statements:

|               |                                 |
|---------------|---------------------------------|
| 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.