

ARDEX AF 181 W



Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by
Regulation (EU) 2020/878
Issue date: 1/19/2021 Revision date: 8/1/2023

Supersedes version of:
1/19/2021

Version: 2.0

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

1.1. Product identifier

Product form : Mixture
Product name : ARDEX AF 181 W
Product code : 7655

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/Professional use spec : Construction materials
Use of the substance/mixture : Floor Covering Adhesives

Function or use category : Construction materials

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier

ARDEX Baustoff GmbH
Hürmer Str., 40
AT- A-3382 Loosdorf
Österreich
T +43/2754/7021-0 - F +43/2754/2490
E-mail address of competent person responsible for the SDS : produktion@ardex.at

1.4. Emergency telephone number

Emergency number : +43-(0)1-4064343 (Vergiftungsinformationszentrale Österreich)

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

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

2.2. Label elements

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

Precautionary statements (CLP) : P102 - Keep out of reach of children.
EUH-statements : EUH210 - Safety data sheet available on request.
EUH208 - Contains 3-aminopropyltriethoxysilane. May produce an allergic reaction.
Extra phrases : Dispose of contents/container in accordance with regional/national/international/local regulations.

2.3. Other hazards

PBT: not relevant – no registration required
vPvB: not relevant – no registration required

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

| Component | |
|---|---|
| 3-aminopropyltriethoxysilane (919-30-2) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate (52829-07-9) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, 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 : adhesives

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--|--|--------------|--|
| 3-aminopropyltriethoxysilane | CAS-No.: 919-30-2 EC-No.: 213-048-4 EC Index-No.: 612-108-00-0 REACH-no: 01-2119480479-24 | > 0,25 - < 1 | Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Skin Sens. 1, H317 |
| bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate | CAS-No.: 52829-07-9 EC-No.: 258-207-9 | > 0,25 - < 1 | Repr. 2, H361f Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 2, H411 |

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 : Remove dirty clothes.
First-aid measures after inhalation : Move to fresh air. Get medical advice/attention if you feel unwell.
First-aid measures after skin contact : IF ON SKIN: Wash with plenty of soap and water.
First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If symptoms persist call a doctor.
First-aid measures after ingestion : Get immediate medical advice/attention. Do not induce vomiting.

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

Symptoms/effects : If symptoms persist call a doctor.

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

Treat symptomatically.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Carbon dioxide (CO₂), extinguishing powder, Water spray, Alcohol-resistant foam. Use extinguishing media appropriate for surrounding fire.
- Unsuitable extinguishing media : high volume water jet.

5.2. Special hazards arising from the substance or mixture

- Explosion hazard : None.
- Reactivity in case of fire : Product is not explosive.
- Hazardous decomposition products in case of fire : In case of fire: Toxic gases may be formed. Heating can release hazardous gases.

5.3. Advice for firefighters

- Precautionary measures fire : Evacuate area. Adapt extinguishing measures to the environment.
- Firefighting instructions : Contain the extinguishing fluids by bunding.
- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Put on breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Ensure adequate air ventilation.

6.1.1. For non-emergency personnel

- Protective equipment : Concerning personal protective equipment to use, see section 8.
- Emergency procedures : Avoid contact with skin and eyes.

6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Advise local authorities if considered necessary.

6.3. Methods and material for containment and cleaning up

- For containment : Collect spillage.
- Methods for cleaning up : Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
- Other information : Place in a suitable container for disposal in accordance with the waste regulations (see Section 13).

6.4. Reference to other sections

See Section 7. See Section 8. See Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Additional hazards when processed : See Section 8.
- Precautions for safe handling : Use only in well ventilated areas. Avoid contact with skin and eyes.
- Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : No special requirements.
- Storage conditions : Store in cool, dry conditions in well sealed receptacles.
- Information on mixed storage : Not required.

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Storage area : Protect from humidity and water.

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

| 3-aminopropyltriethoxysilane (919-30-2) | |
|--|------------------------|
| DNEL/DMEL (Workers) | |
| Acute - systemic effects, dermal | 8.3 mg/kg bw/day |
| Acute - systemic effects, inhalation | 59 mg/m ³ |
| Long-term - systemic effects, dermal | 8.3 mg/kg bw/day |
| Long-term - systemic effects, inhalation | 59 mg/m ³ |
| DNEL/DMEL (General population) | |
| Acute - systemic effects, dermal | 5 mg/kg bw/day |
| Acute - systemic effects, inhalation | 17.4 mg/m ³ |
| Long-term - systemic effects, inhalation | 17.4 mg/m ³ |
| Long-term - systemic effects, dermal | 5 mg/kg bw/day |
| PNEC (Water) | |
| PNEC aqua (freshwater) | 0.33 mg/l |
| PNEC aqua (marine water) | 0.033 mg/l |
| PNEC (Sediment) | |
| PNEC sediment (freshwater) | 1.2 mg/kg dwt |
| PNEC sediment (marine water) | 0.12 mg/kg dwt |
| PNEC (Soil) | |
| PNEC soil | 0.05 mg/kg dwt |
| PNEC (STP) | |
| PNEC sewage treatment plant | 13 mg/l |
| bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate (52829-07-9) | |
| DNEL/DMEL (Workers) | |
| Long-term - systemic effects, dermal | 1.8 mg/kg bw/day |
| Long-term - systemic effects, inhalation | 1.27 mg/m ³ |
| DNEL/DMEL (General population) | |
| Long-term - systemic effects, oral | 0.18 mg/kg bw/day |

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| bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate (52829-07-9) | |
|--|------------------------|
| Long-term - systemic effects, inhalation | 0.31 mg/m ³ |
| Long-term - systemic effects, dermal | 0.9 mg/kg bw/day |
| PNEC (Water) | |
| PNEC aqua (freshwater) | 0.004 mg/l |
| PNEC aqua (marine water) | 0.38 µg/l |
| PNEC (Sediment) | |
| PNEC sediment (freshwater) | 5.9 mg/kg dwt |
| PNEC sediment (marine water) | 0.59 mg/kg dwt |
| PNEC (Soil) | |
| PNEC soil | 1.18 mg/kg dwt |
| PNEC (STP) | |
| PNEC sewage treatment plant | 1 mg/l |

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure there is adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product.

8.2.2. Personal protection equipment

Personal protective equipment:

Protective goggles. Gloves.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Wear closed safety glasses

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Preventive skin protection is recommended. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer. Time of penetration is to be checked with the glove producer

| Hand protection | | | | | |
|---------------------------------------|----------------|--|----------------|--------------------------------|----------|
| Type | Material | Permeation | Thickness (mm) | Penetration | Standard |
| Disposable gloves, Reusable gloves | Nitrile rubber | Please follow the instructions related to the permeability and the penetration time provided by the manufacturer | ≥ 0,35 mm | Refer to supplier/manufacturer | |

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8.2.2.3. Respiratory protection

Respiratory protection:

Use appropriate ventilation. [In case of inadequate ventilation] wear respiratory protection.

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

Other information:

Handle in accordance with good industrial hygiene and safety procedures. Wash hands before breaks and after work.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|--|
| Physical state | : Liquid |
| Colour | : white. |
| Appearance | : Paste. |
| Odour | : characteristic. |
| Odour threshold | : Not available |
| Melting point | : Not applicable |
| Freezing point | : Not available |
| Boiling point | : 394 °C |
| Flammability | : Not specifically applicable Not self-igniting |
| Explosive properties | : None. |
| Explosive limits | : Not available |
| Lower explosion limit | : Not determined |
| Upper explosion limit | : Not determined |
| Flash point | : > 200 °C |
| Auto-ignition temperature | : Not self-igniting |
| Decomposition temperature | : Not determined |
| pH | : Not determined |
| Viscosity, kinematic | : Not determined |
| Viscosity, dynamic | : 180000 mPa·s (ISO 2555) |
| Solubility | : Slightly miscible. |
| Partition coefficient n-octanol/water (Log Kow) | : Not available |
| Vapour pressure | : Not determined |
| Vapour pressure at 50°C | : Not available |
| Density | : 1.38 g/cm ³ (EN ISO 2811-1) |
| Relative density | : Not determined |
| 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

VOC content : 0.1 % (EU)

SECTION 10: Stability and reactivity

10.1. Reactivity

No decomposition when used according to regulations.

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10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. Reacts vigorously with strong oxidizers and acids.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available.

10.6. Hazardous decomposition products

Product releases small amounts of methanol when used as intended.

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

3-aminopropyltriethoxysilane (919-30-2)

| | |
|-----------------------------|---|
| LD50 oral rat | 1.57 – 2.83 ml/kg (EPA OTS 798.1175, Rat, Male / female, Experimental value, Oral) |
| LD50 dermal rabbit | 4.29 ml/kg (EPA OTS 798.1100, 24 h, Rabbit, Male / female, Experimental value, Dermal) |
| LC50 Inhalation - Rat [ppm] | > 5 ppm (OECD 403: Acute Inhalation Toxicity, 6 h, Rat, Male, Experimental value, Inhalation (vapours)) |
| ATE CLP (oral) | 1491.5 mg/kg bodyweight |
| ATE CLP (dermal) | 4075.5 mg/kg bodyweight |

bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate (52829-07-9)

| | |
|-----------------------|--|
| LD50 oral rat | 3700 mg/kg bodyweight (Equivalent or similar to OECD 423, Rat, Male / female, Experimental value, Oral, 14 day(s)) |
| LD50 dermal rat | > 3170 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s)) |
| LC50 Inhalation - Rat | 0.5 mg/l air (Equivalent or similar to OECD 403, 4 weeks (daily, 5 days / week), Rat, Male / female, Experimental value, Inhalation (aerosol), 7 day(s)) |
| ATE CLP (oral) | 3700 mg/kg bodyweight |

Skin corrosion/irritation : Not classified
pH: Not determined
Serious eye damage/irritation : Not classified
pH: Not determined
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 | Not determined |
|----------------------|----------------|

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11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

No additional information available

11.2.2. Other information

Potential adverse human health effects and symptoms : No data available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Harmful to fishes.

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

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

3-aminopropyltriethoxysilane (919-30-2)

LC50 - Fish [1] > 934 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Brachydanio rerio, Semi-static system, Fresh water, Experimental value, GLP)

EC50 - Crustacea [1] 331 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)

ErC50 algae > 1000 mg/l (EU Method C.3, 72 h, Scenedesmus subspicatus, Static system, Fresh water, Experimental value, GLP)

bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate (52829-07-9)

LC50 - Fish [1] 4.4 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Lepomis macrochirus, Flow-through system, Fresh water, Experimental value)

ErC50 algae 0.705 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)

12.2. Persistence and degradability

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Persistence and degradability Not applicable.

3-aminopropyltriethoxysilane (919-30-2)

Persistence and degradability Not readily biodegradable in water.

bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate (52829-07-9)

Persistence and degradability Not readily biodegradable in water.

12.3. Bioaccumulative potential

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Bioaccumulative potential No bioaccumulation.

3-aminopropyltriethoxysilane (919-30-2)

BCF - Fish [1] 3.4 (OECD 305: Bioconcentration: Flow-Through Fish Test, 8 week(s), Cyprinus carpio, Flow-through system, Fresh water, Experimental value, Fresh weight)

Partition coefficient n-octanol/water (Log Pow) 1.7 (QSAR, 20 °C)

Bioaccumulative potential Low potential for bioaccumulation (BCF < 500).

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bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate (52829-07-9)

| | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | 0.35 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C) |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |

12.4. Mobility in soil

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| | |
|----------------|--|
| Ecology - soil | Do not allow undiluted product enter the sewer. Harmful to aquatic life. |
|----------------|--|

3-aminopropyltriethoxysilane (919-30-2)

| | |
|----------------|---|
| Ecology - soil | No (test)data on mobility of the substance available. |
|----------------|---|

bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate (52829-07-9)

| | |
|-----------------|-------------------------------------|
| Surface tension | No data available in the literature |
| Ecology - soil | Highly mobile in soil. |

12.5. Results of PBT and vPvB assessment

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PBT: not relevant – no registration required

vPvB: not relevant – no registration required

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

Additional information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

| | |
|-----------------------------------|--|
| Regional legislation (waste) | : Do not dispose of with domestic waste. Do not discharge into drains or the environment. Disposal must be done according to official regulations. |
| Waste treatment methods | : Dispose of contents/container in accordance with licensed collector's sorting instructions. |
| Sewage disposal recommendations | : Do not put down the drain. Must undergo physico-chemical treatment prior to disposal. |
| European List of Waste (LoW) code | : 08 00 00 - WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS 08 04 00 - wastes from MFSU of adhesives and sealants (including waterproofing products) 08 04 10 - waste adhesives and sealants other than those mentioned in 08 04 09 |

SECTION 14: Transport information

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

| ADR | IMDG | IATA | ADN | RID |
|--------------------------------------|---------------|---------------|---------------|---------------|
| 14.1. UN number | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| 14.2. UN proper shipping name | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |

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| ADR | IMDG | IATA | ADN | RID |
|---|---------------|---------------|---------------|---------------|
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| 14.3. Transport hazard class(es) | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| 14.4. Packing group | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| 14.5. Environmental hazards | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| No supplementary information available | | | | |

14.6. Special precautions for user

- Overland transport

Not regulated

- Transport by sea

Not regulated

- Air transport

Not regulated

- Inland waterway transport

Not regulated

- Rail transport

Not regulated

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 substance(s) listed on REACH Annex XVII (Restriction Conditions)

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

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

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

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

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

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

VOC content : 0.1 % (EU)

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

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

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SECTION 16: Other information

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 2 | Hazardous to the aquatic environment – Chronic Hazard, Category 2 |
| EUH208 | Contains 3-aminopropyltriethoxysilane. May produce an allergic reaction. |
| EUH210 | Safety data sheet available on request. |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| H302 | Harmful if swallowed. |
| H314 | Causes severe skin burns and eye damage. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H361f | Suspected of damaging fertility. |
| H400 | Very toxic to aquatic life. |
| H411 | Toxic to aquatic life with long lasting effects. |
| Repr. 2 | Reproductive toxicity, Category 2 |
| Skin Corr. 1B | Skin corrosion/irritation, Category 1, Sub-Category 1B |
| Skin Sens. 1 | Skin sensitisation, Category 1 |

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.