

SAFETY DATA SHEET

FR4-45 BASE STONE GREY

Section 1. Identification

GHS product identifier SDS code : FR4-45 BASE STONE GREY : 64000200B

Relevant identified uses of the substance or mixture and uses advised against

| Identified uses | | | | | |
|---|--|--|-------------------------------|--|--|
| Paint. Professional use Industrial use | | | | | |
| | Uses advised against | | | | |
| All other uses | | | | | |
| Product use | : Filler for interior use | | | | |
| Supplier's details | | | | | |
| MAPAERO SAS 10, Avenue de la Rij 09103 PAMIERS Ce France | | | | | |
| Emergency telephone number (with hours of operation) | : +33 (0)5 34 01 34 01 +33 (0)5 61 60 23 30 | | | | |
| Section 2. Hazard | s identification | | | | |
| OSHA/HCS status | : This material is conside (29 CFR 1910.1200). | red hazardous by the OSHA Hazar | d Communication Standard | | |
| Classification of the substance or mixture | : SKIN SENSITIZATION CARCINOGENICITY - | | | | |
| GHS label elements | | | | | |
| Hazard pictograms | | | | | |
| Signal word | : Warning | | | | |
| Hazard statements | : May cause an allergic s Suspected of causing c | | | | |
| Precautionary statements | | | | | |
| Prevention | : Øbtain special instruction eye or face protection. | ons before use. Wear protective glo Avoid breathing vapor. | oves, protective clothing and | | |
| Response | | ed: Get medical advice or attention. KIN: Wash with plenty of water. If s ittention. | | | |
| Storage | : Not applicable. | | | | |
| Date of issue/Date of revision | : 12/9/2022 | Version : 2 | | | |
| Date of previous issue | :10/6/2022 | 1/11 | AkzoNobel | | |

Section 2. Hazards identification

Disposal

: Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazards not otherwise classified

Section 3. Composition/information on ingredients

: None known.

Substance/mixture : Mixture

| Ingredient name | % | CAS number |
|------------------|-----------|------------|
| | ≥10 - ≤25 | 14807-96-6 |
| titanium dioxide | ≤10 | 13463-67-7 |
| C(M)IT/MIT(3:1) | <0.06 | 55965-84-9 |

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

| Eye contact | : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention. |
|--------------|---|
| Inhalation | : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. |
| Skin contact | : Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse. |
| Ingestion | : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. |

Most important symptoms/effects, acute and delayed

| Potential acute health eff | fects | | | |
|--------------------------------|--------------------------|---|-----------|--|
| Eye contact | : No known significant e | ffects or critical hazards. | | |
| Inhalation | : No known significant e | No known significant effects or critical hazards. | | |
| Skin contact | : May cause an allergic | May cause an allergic skin reaction. | | |
| Ingestion | : No known significant e | ffects or critical hazards. | | |
| <u>Over-exposure signs/syr</u> | <u>nptoms</u> | | | |
| Eye contact | : No specific data. | | | |
| Inhalation | : No specific data. | | | |
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Section 4. First aid measures

| Skin contact | : Adverse symptoms may include the following: irritation redness |
|--------------|--|
| Ingestion | : No specific data. |

Indication of immediate medical attention and special treatment needed, if necessary

| Notes to physician | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
|----------------------------|---|
| Specific treatments | : No specific treatment. |
| Protection of first-aiders | : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. |

See toxicological information (Section 11)

Section 5. Fire-fighting measures

| | 0 | 5 |
|--|---|---|
| Extinguishing media | | |
| Suitable extinguishing media | | : Use an extinguishing agent suitable for the surrounding fire. |
| Unsuitable extinguishing media | 9 | None known. |
| Specific hazards arising from the chemical | | : In a fire or if heated, a pressure increase will occur and the container may burst. |
| Hazardous thermal decomposition products | | Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides |
| Special protective actions for fire-fighters | 5 | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| Special protective equipment for fire-fighters | | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |

Section 6. Accidental release measures

| Personal precautions, protective equipment and emergency procedures | | | |
|---|--|--|--|
| For non-emergency personnel | : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. | | |
| For emergency responders | : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". | | |
| Environmental precautions | : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). | | |

Methods and materials for containment and cleaning up

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Small spill Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. Large spill Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

| Protective measures | : Fut on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. |
|--|--|
| Advice on general occupational hygiene | : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. |
| Conditions for safe storage, including any incompatibilities | : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. |

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

| Ingredient name | Exposure limits | |
|--|--|--|
| ✓alc , not containing asbestiform fibres | None. | |
| titanium dioxide | OSHA PEL (United States, 5/2018). | |
| | TWA: 15 mg/m ³ 8 hours. Form: Total dust OSHA PEL 1989 (United States, 3/1989). | |
| | TWA: 10 mg/m ³ 8 hours. Form: Total dust ACGIH TLV (United States, 1/2022). | |
| | TWA: 2.5 mg/m ³ 8 hours. Form: respirable fraction, finescale particles | |
| | | |
| C(M)IT/MIT(3:1) | None. | |

Appropriate engineering controls

: Veser operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

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Section 8. Exposure controls/personal protection

| Environmental exposure controls | : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. |
|------------------------------------|--|
| Individual protection meas | ures |
| Hygiene measures | : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. |
| Eye/face protection | : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields. |
| Skin protection | |
| Hand protection | : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. |
| Body protection | Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. |
| Other skin protection | Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. |
| Respiratory protection | : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. |

Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

| <u>Appearance</u> | |
|---|---|
| Physical state | : Liquid. |
| Color | : Gray. |
| Odor | : Characteristic. |
| Odor threshold | : Not available. |
| рН | : 👂 [DIN EN 1262] |
| Melting point/freezing point | : Not available. |
| Boiling point, initial boiling point, and boiling range | : Not available. |
| Flash point | : 🗭osed cup: 105°C (221°F) [Pensky-Martens] |
| Flammability | : Not available. |
| Lower and upper explosion limit/flammability limit | : Not available. |
| Vapor pressure | : |

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Section 9. Physical and chemical properties and safety characteristics

| | Va | por Pressu | re at 20°C | v | apor pres | sure at 50°C |
|--|------------|------------|------------|-------|-----------|--------------|
| Ingredient name | mm Hg | kPa | Method | mm Hg | kPa | Method |
| ammonia, anhydrous | 72.31 | 9.6 | | | | |
| octamethylcyclotetrasiloxane | 0.99 | 0.13 | | | | |
| 2-butoxyethanol | 0.75 | 0.1 | | | | |
| Polyether modified siloxane | 0.75 | 0.1 | | | | |
| decamethylcyclopentasiloxane | 0.25 | 0.033 | | | | |
| aluminium hydroxide | <0.075 | <0.01 | | | | |
| N,N'-ethylenedi(stearamide) | 0.00087 | 0.00012 | | | | |
| 1,1'-(ethane-1,2-diyl)bis [pentabromobenzene] | <0.0000075 | <0.0000001 | OECD 104 | | | |
| propylidynetrimethanol | 0 | 0 | | | | |
| elative vapor density | : Not avai | lable. | | | | · · |

Density

: 7.507 g/cm³ [DIN EN ISO 2811-1]

Solubility(ies)

| Ν | ledia | Result |
|---|-----------|-------------------------|
| ¢ | old water | Soluble [OESO (TG 105)] |

Partition coefficient: n-: Not applicable.

2

octanol/water

Auto-ignition temperature

| uto-ignition temperature : | | | | |
|--------------------------------------|------------|----------------|---------------|--|
| Ingredient name | °C | °F | Method | |
| ₽-butoxyethanol | 230 | 446 | DIN 51794 | |
| Paraffin waxes and Hydrocarbon waxes | 244.85 | 472.7 | | |
| Ethene, homopolymer | 330 to 410 | 626 to 770 | | |
| dodecamethylcyclohexasiloxane | 368 to 371 | 694.4 to 699.8 | | |
| decamethylcyclopentasiloxane | 372 | 701.6 | ASTM E 659-78 | |
| N,N'-ethylenedi(stearamide) | 380 | 716 | DIN 51794 | |
| octamethylcyclotetrasiloxane | 384 to 387 | 723.2 to 728.6 | ASTM E 659 | |
| ammonia, anhydrous | 651 | 1203.8 | | |

Decomposition temperature : Not available.

| • | NOL | avaii | able | • |
|---|-----|-------|------|---|
| | | | | |

| : | Kinematic (room temperature): 431 mm²/s (431 cSt) [DIN EN ISO 3219] |
|---|---|
| | Kinematic (40°C (104°F)): 201 mm²/s (201 cSt) [DIN EN ISO 3219] |

Particle characteristics

Viscosity

Median particle size

: Not applicable.

Section 10. Stability and reactivity

| Reactivity | : No specific test data related | to reactivity available for this produ | ct or its ingredients. |
|------------------------------------|---------------------------------|--|------------------------|
| Chemical stability | : The product is stable. | | |
| Possibility of hazardous reactions | : Under normal conditions of s | storage and use, hazardous reactio | ns will not occur. |
| Conditions to avoid | : No specific data. | | |
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Section 10. Stability and reactivity

Incompatible materials : No specific data.

 Hazardous decomposition
 : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Not available.

Irritation/Corrosion

Not available.

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

| Product/ingredient name | OSHA | IARC | NTP |
|---|------|------|-----|
| ✓alc , not containing asbestiform fibres | - | 3 | - |
| titanium dioxide | - | 2B | - |

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely : Not available. routes of exposure

Potential acute health effects

| Eye contact | : No known significant effects or critical hazards. |
|--------------|---|
| Inhalation | : No known significant effects or critical hazards. |
| Skin contact | : May cause an allergic skin reaction. |
| Ingestion | : No known significant effects or critical hazards. |

Symptoms related to the physical, chemical and toxicological characteristics

| Eye contact | : No specific data. | | |
|--------------------------------|---------------------|-------------|--|
| Inhalation | : No specific data. | | |
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| FR4-45 BASE STONE GREY | |
|--------------------------------|---|
| Section 11. Toxico | ological information |
| Skin contact | : Adverse symptoms may include the following: irritation redness |
| Ingestion | : No specific data. |
| Delayed and immediate effect | cts and also chronic effects from short and long term exposure |
| <u>Short term exposure</u> | |
| Potential immediate effects | : Not available. |
| Potential delayed effects | : Not available. |
| Long term exposure | |
| Potential immediate effects | : Not available. |
| Potential delayed effects | : Not available. |
| Potential chronic health eff | ects |
| Not available. | |
| General | : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. |
| Carcinogenicity | : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure. |
| Mutagenicity | : No known significant effects or critical hazards. |
| Reproductive toxicity | : No known significant effects or critical hazards. |

Section 12. Ecological information

| Т | oxi | city | |
|---|-----|------|--|
| _ | | _ | |

| Product/ingredient name | Result | Species | Exposure |
|-------------------------|---------------------------------------|---|----------|
| titanium dioxide | Acute EC50 19.3 mg/l Fresh water | Daphnia - Daphnia magna | 48 hours |
| | Acute EC50 27.8 mg/l Fresh water | Daphnia - Daphnia magna | 48 hours |
| | Acute EC50 35.306 mg/l Fresh water | Daphnia - Daphnia magna - Neonate | 48 hours |
| | Acute LC50 3 mg/l Fresh water | Crustaceans - Ceriodaphnia dubia - Neonate | 48 hours |
| | Acute LC50 13.4 mg/l Fresh water | Crustaceans - Ceriodaphnia dubia - Neonate | 48 hours |
| | Acute LC50 11 mg/l Fresh water | Crustaceans - Ceriodaphnia dubia - Neonate | 48 hours |
| | Acute LC50 3.6 mg/l Fresh water | Crustaceans - Ceriodaphnia dubia - Neonate | 48 hours |
| | Acute LC50 15.9 mg/l Fresh water | Crustaceans - Ceriodaphnia dubia - Neonate | 48 hours |
| | Acute LC50 6.5 mg/l Fresh water | Daphnia - Daphnia pulex - Neonate | 48 hours |
| | Acute LC50 13 mg/l Fresh water | Daphnia - Daphnia pulex - Neonate | 48 hours |
| | Acute LC50 >1000000 µg/l Marine water | Fish - Fundulus heteroclitus | 96 hours |
| | Acute LC50 >1000 mg/l Fresh water | Fish - Pimephales promelas | 96 hours |

Persistence and degradability

Not available.



Section 12. Ecological information

Bioaccumulative potential

Not available.

| <u>Mobility in soil</u> | |
|-------------------------|------------------|
| Soil/water partition | : Not available. |
| coefficient (Koc) | |

| Other adverse effects | : | No known significant eff | ffects or | critical | hazards |
|-----------------------|---|--------------------------|-----------|----------|---------|
| | | | | | |

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

The information provided in section 14 is based on a bulk package shipment via ground transport in North America. All shippers are responsible for ensuring the proper transportation classification and package/container requirements are followed for the relevant mode of transport.

| DOT Classification | IMDG | IATA |
|--------------------|----------------|---|
| Not regulated. | Not regulated. | Not regulated. |
| - | - | - |
| - | - | - |
| - | - | - |
| No. | No. | No. |
| | Not regulated | Not regulated. Not regulated. - - - - - - - - - - |

Additional information

: MDG Code Segregation group Not applicable

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not available. to IMO instruments

Section 15. Regulatory information

U.S. Federal regulations

: United States inventory (TSCA 8b):

Not determined.

State regulations Massachusetts

- : The following components are listed: TALC; TITANIUM DIOXIDE; PRECIPITATED SILICA
 - : None of the components are listed.
- New York New Jersey

Pennsylvania

- : The following components are listed: TALC (NOT CONTAINING ASBESTOS FIBERS);
 - TITANIUM DIOXIDE; SILICA, AMORPHOUS, PRECIPITATE & GEL
- : The following components are listed: TALC; TITANIUM OXIDE; PRECIPITATED SILICA

California Prop. 65

MARNING: Cancer - www.P65Warnings.ca.gov.

| Ingredient name | No significant risk level | Maximum acceptable dosage level | Type of toxicity |
|--|------------------------------|---------------------------------------|----------------------------|
| Iffanium dioxide carbon black, respirable powder crystalline silica, respirable powder | - | - | Cancer Cancer Cancer |
| crystalline sliica, respirable powder | - | - | Cancer |

Inventory list

Canada

: At least one component is not listed.

Section 16. Other information

Procedure used to derive the classification

| Classification | Justification |
|----------------|--|
| | Calculation method Calculation method |

| <u>History</u> | |
|---------------------------------|---|
| Date of printing | : 9 December 2022 |
| Date of issue/ Date of revision | : 9 December 2022 |
| Date of previous issue | : 6 October 2022 |
| Version | : 2 |
| Unique ID | : |
| Key to abbreviations | : ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available SGG = Segregation Group UN = United Nations |

Indicates information that has changed from previously issued version.

Notice to reader

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Section 16. Other information

FOR PROFESSIONAL USE ONLY

IMPORTANT NOTE The information in this data sheet is not intended to be exhaustive and is based on the present state of our knowledge and on current laws: any person using the product for any purpose other than that specifically recommended in the technical data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. Always read the Material Data Sheet and the Technical Data Sheet for this product if available. All advice we give or any statement made about the product by us (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing otherwise, we do not accept any liability whatsoever for the performance of the product or for any loss or damage arising out of the use of the product. All products supplied and technical advice given are subject to our standard terms and conditions of sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is subject to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to verify that this data sheet is current prior to using the product.

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