

Safety Data Sheet according to Regulation (EU) 2020/878 Issue date: 10/6/2021 Version: 1.0

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

1.1. Product identifier

| Product form | : | Mixture |
|--------------|---|---------|
| Trade name | : | PVC Bu |

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

1.2.1. Relevant identified uses

| Industrial/Professional use spec | : For professional use only |
|----------------------------------|-----------------------------|
| Use of the substance/mixture | : Biocidal products |
| | Disinfectant |

1.2.2. Uses advised against

Restrictions on use

: Any other purpose.

Buster

1.3. Details of the supplier of the safety data sheet

Emerald Clover Ltd. Drumduffy Drumkeeran N41 T998 Co. Leitrim - Ireland T +353-(0)71-96-48008 info@emeraldclover.ie - www.emeraldclover.ie

1.4. Emergency telephone number

| Country | Organisation/Company | Address | Emergency number | Comment |
|---------|--|--|--|---------|
| Ireland | National Poisons Information Centre Beaumont Hospital | PO Box 1297 Beaumont Road 9 Dublin | +353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7) | |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

| Skin corrosion/irritation, Category 2 | H315 |
|---|------|
| Serious eye damage/eye irritation, Category 1 | H318 |
| Full text of H-statements: see section 16 | |

Adverse physicochemical, human health and environmental effects

Causes skin irritation. Causes serious eye damage.

2.2. Label elements

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

Hazard pictograms (CLP)



Signal word (CLP) Contains : Danger

Tetrasodium ethylene diamine tetraacetate; Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides; Alcohols C6-C12 ethoxylated

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| Hazard statements (CLP) | : H315 - Causes skin irritation. |
|--------------------------------|--|
| | H318 - Causes serious eye damage. |
| Precautionary statements (CLP) | : P102 - Keep out of reach of children. |
| | P280 - Wear protective gloves, protective clothing, eye protection, face protection. |
| | P302+P352 - IF ON SKIN: Wash with plenty of soap and water. |
| | P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remov |
| | contact lenses, if present and easy to do. Continue rinsing. |
| | P310 - Immediately call a POISON CENTER, a doctor. |
| | P332+P313 - If skin irritation occurs: Get medical advice/attention. |
| | P362+P364 - Take off contaminated clothing and wash it before reuse. |
| | P405 - Store locked up. |

2.3. Other hazards

The product does not meet the PBT and vPvB classification criteria

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | Conc. | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|--|-------------|--|
| Tetrasodium ethylene diamine tetraacetate | (CAS-No.) 64-02-8 (EC-No.) 200-573-9 (EC Index-No.) 607-428-00-2 | ≥ 1 – < 2.5 | Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 |
| Quaternary ammonium compounds, benzyl-C12-16- alkyldimethyl, chlorides | (CAS-No.) 68424-85-1 (EC-No.) 270-325-2 | ≥ 1 – < 2.5 | Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Corr. 1B, H314 Aquatic Acute 1, H400 |
| Alcohols C6-C12 ethoxylated | (CAS-No.) 68439-45-2 (EC-No.) 614-481-5 | ≥ 1 – < 2.5 | Acute Tox. 4 (Oral), H302 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 general | Never give anything by mouth to an unconscious person. Seek medical attention immediately. |
|---|--|
| First-aid measures after inhalation | : Remove person to fresh air and keep comfortable for breathing. If inhaled and if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER/doctor. |
| First-aid measures after skin contact | : Wash skin with plenty of water. If skin irritation occurs: Get medical advice/attention. |
| First-aid measures after eye contact | : Immediately rinse with water for a prolonged period while holding the eyelids wide open. |
| | Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately. |
| First-aid measures after ingestion | : If swallowed, seek medical advice immediately and show this container or label. Rinse |
| | mouth. Do not induce vomiting. If vomiting occurs, the head should be kept low so that |
| | vomit does not enter the lungs. Never give anything by mouth to an unconscious person. |
| 4.2. Most important symptoms and effects, | both acute and delayed |

| Symptoms/effects after inhalation | : | Cough. Shortness of breath. May cause respiratory irritation. |
|-------------------------------------|---|---|
| Symptoms/effects after skin contact | : | Causes skin irritation. Redness. Skin rash/inflammation. Itching. |

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|---------------------------------------|--|
| Symptoms/effects after eye contact | : Causes serious eye damage. May cause dermatitis, eye irritation, corneal oedema and chemical burns. Can cause blindness. |
| Symptoms/effects after ingestion | Burns or irritation of the linings of the mouth, throat, and gastrointestinal tract. Abdominal pain, nausea. |
| | F |

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

Treat symptomatically.

| SECTION 5: Firefighting measures | |
|--|--|
| 5.1. Extinguishing media | |
| Suitable extinguishing media | : Water spray. Foam. Dry powder. Carbon dioxide. Use extinguishing agent suitable for surrounding fire. |
| Unsuitable extinguishing media | : Do not use a heavy water stream. |
| 5.2. Special hazards arising from the subs | tance or mixture |
| Fire hazard | : Burning produces irritating, toxic and noxious fumes. |
| Explosion hazard | : Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. Carbon dioxide. Carbon monoxide. Nitrogen oxides. |
| 5.3. Advice for firefighters | |
| Precautionary measures fire | : Stop leak if safe to do so. |
| Firefighting instructions | : Do not enter fire area without proper protective equipment, including respiratory protection. Exercise caution when fighting any chemical fire. Fight fire with normal precautions from a reasonable distance. Move containers away from the fire area if this can be done without risk. Use water spray or fog for cooling exposed containers. |
| Protection during firefighting | : Use self-contained breathing apparatus and chemically protective clothing. Wear fire/flame resistant/retardant clothing. EN 469. Do not attempt to take action without suitable protective equipment. |

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

| General measures | : Avoid all contact with skin, eyes, or clothing. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous. |
|------------------------------------|--|
| 6.1.1. For non-emergency personnel | |
| Protective equipment | : Wear recommended personal protective equipment. |
| Emergency procedures | : Do not breathe vapours. Do not get in eyes, on skin, or on clothing. Evacuate unnecessary personnel. Do not touch or walk on the spilled product. Ventilate spillage area. 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". |
| Emergency procedures | : Avoid breathing (dust, vapor, mist, gas). Ventilate area. |
| | |

6.2. Environmental precautions

Avoid release to the environment. Prevent liquid from entering sewers, watercourses, underground or low areas. Notify authorities if product enters sewers or public waters.

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6.3. Methods and material for containment and cleaning up

| Methods for cleaning up | : Take up liquid spill into absorbent material. Stop leaks if it can be done without personal risk. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. For large spills, confine the spill in a dike and charge it with wet sand or earth for subsequent safe disposal. Absorb remaining liquid with sand or inert absorbent and remove to safe place. Flush residue with large amounts of water. |
|-------------------------|--|
| Other information | : Dispose of materials or solid residues at an authorized site. |

6.4. Reference to other sections

For further information refer to section 13. For further information refer to section 8: "Exposure controls/personal protection".

| SECTION 7: Handling and storage | | |
|---|---|--|
| 7.1. Precautions for safe handling | | |
| Precautions for safe handling | : Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Ensure good ventilation of the work station. Provide good ventilation in process area to prevent formation of vapour. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not breathe spray, mist, vapours. Do not re-use container for any purpose. Empty containers retain product residue and can be hazardous. Do not mix with other chemicals. | |
| Hygiene measures | : Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. | |
| 7.2. Conditions for safe storage, including a | any incompatibilities | |
| Storage conditions | : Store locked up. Keep away from food, drink and animal feedingstuffs. Store in original container or corrosive resistant and/or lined container. Keep container tightly closed. | |

| | container or corrosive resistant and/or lined container. Keep container tightly closed. |
|------------------------|---|
| | Containers which are opened should be properly resealed and kept upright to prevent |
| | leakage. Store away from other materials. do not store in unlabelled containers. Store in a |
| | well-ventilated place. Keep cool. |
| Incompatible products | : Oxidizing agent. Strong acids. |
| Incompatible materials | : Direct sunlight. Heat sources. |
| 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

| Monitoring methods | |
|--------------------|--|
| | Workplace atmospheres. Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy. Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. Refer to all applicable national, international and local regulations or provisions. |

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

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8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station. Provide local exhaust or general room ventilation. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Handle in accordance with good industrial hygiene and safety procedures.

8.2.2. Personal protection equipment

Personal protective equipment:

Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the protective equipment. Gloves. Safety glasses.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Chemical goggles or face shield. Safety glasses. EN 166. Do not wear contact lenses

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing. Impermeable boots and protective equipment. EN 943. Skin protection appropriate to the conditions of use should be provided

Hand protection:

Chemical resistant gloves (according to European standard EN 374 or equivalent). Nitrile rubber gloves. Polyvinylchloride (PVC). Breakthrough time: 6 (> 480 minutes). Thickness 0.11 mm

Other skin protection

Materials for protective clothing:

PPE compliant to the recommended EN/ISO standards should be selected.

8.2.2.3. Respiratory protection

Respiratory protection:

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. EN 143

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment. Prevent entry to sewers and public waters. Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

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| Colour | : re | d. |
|---|------|------------------|
| Odour | : No | ot available |
| Odour threshold | : No | ot available |
| Melting point | : No | ot applicable |
| Freezing point | : No | ot available |
| Boiling point | : No | ot available |
| Flammability | : No | ot applicable |
| Explosive limits | : No | ot available |
| Lower explosive limit (LEL) | : No | ot available |
| Upper explosive limit (UEL) | : No | ot available |
| Flash point | : No | ot available |
| Auto-ignition temperature | : No | ot available |
| Decomposition temperature | : No | ot available |
| pH | : No | ot available |
| Viscosity, kinematic | : No | ot available |
| Solubility | : So | oluble in water. |
| Partition coefficient n-octanol/water (Log Kow) | : No | ot available |
| Vapour pressure | : No | ot available |
| Vapour pressure at 50 °C | : No | ot available |
| Density | : No | ot available |
| Relative density | : No | ot available |
| Relative vapour density at 20 °C | : No | ot available |
| Particle size | : No | ot applicable |
| Particle size distribution | : No | ot applicable |
| Particle shape | : No | ot applicable |
| Particle aspect ratio | : No | ot applicable |
| Particle aggregation state | : No | ot applicable |
| Particle agglomeration state | : No | ot applicable |
| Particle specific surface area | : No | ot applicable |
| Particle dustiness | : No | ot 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

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

Reacts vigorously with strong oxidizers and acids. Hazardous polymerisation: Will not occur.

10.4. Conditions to avoid

Direct sunlight. Heat.

10.5. Incompatible materials

Oxidizing agent. Strong acids.

10.6. Hazardous decomposition products

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

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SECTION 11: Toxicological information

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

| Acute toxicity (oral) | : Not classified (Based on available data, the classification criteria are not met) |
|-----------------------------|---|
| Acute toxicity (dermal) | : Not classified (Based on available data, the classification criteria are not met) |
| Acute toxicity (inhalation) | : Not classified (Based on available data, the classification criteria are not met) |

| Alcohols C6-C12 ethoxylated (68439-45-2) | |
|--|------------|
| LD50 oral rat | 1360 mg/kg |

| Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (68424-85-1) | | |
|--|---|--|
| LD50 oral rat | 795 mg/kg | |
| Skin corrosion/irritation | : Causes skin irritation. | |
| Serious eye damage/irritation | : Causes serious eye damage. | |
| Respiratory or skin sensitisation | : Not classified (Based on available data, the classification criteria are not met) | |
| Germ cell mutagenicity | : Not classified (Based on available data, the classification criteria are not met) | |
| Carcinogenicity | : Not classified (Based on available data, the classification criteria are not met) | |
| Reproductive toxicity | : Not classified (Based on available data, the classification criteria are not met) | |
| STOT-single exposure | : Not classified (Based on available data, the classification criteria are not met) | |
| STOT-repeated exposure | : Not classified (Based on available data, the classification criteria are not met) | |
| Aspiration hazard | : Not classified (Based on available data, the classification criteria are not met) | |
| 11.2. Information on other hazards | | |

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

| Hazardous to the aquatic environment, short-term (acute) | : Not classified (Based on available data, the classification criteria are not met) |
|---|--|
| Hazardous to the aquatic environment, long-term (chronic) | : Not classified (Based on available data, the classification criteria are not met) |
| Not rapidly degradable | |
| Additional information | : No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation. |

| Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (68424-85-1) | |
|--|--------------------------|
| EC50 - Crustacea [1] | 0.016 mg/l Daphnia magna |

12.2. Persistence and degradability

| PVC Buster | |
|-------------------------------|---|
| Persistence and degradability | Biodegradability in water: no data available. |

12.3. Bioaccumulative potential

| PVC Buster | |
|---------------------------|---|
| Bioaccumulative potential | No data available concerning bioaccumulation. |

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12.4. Mobility in soil

| PVC Buster | |
|----------------|------------------------|
| Ecology - soil | Adsorbs into the soil. |
| | |

12.5. Results of PBT and vPvB assessment

PVC Buster

The product does not meet the PBT and vPvB classification criteria

12.6. Endocrine disrupting properties

SECTION 13: Disposal considerations

No additional information available

12.7. Other adverse effects

Additional information

: Avoid release to the environment.

| 13.1. Waste treatment methods | | | | |
|---------------------------------|--|--|--|--|
| Waste treatment methods | : Dispose of contents/container in accordance with licensed collector's sorting instructions. Disposal via incineration is recommended. Disposal must be carried out using appropriate EWC code. | | | |
| Sewage disposal recommendations | : Do not dispose of waste into sewer. Disposal must be done according to official regulations | | | |
| Additional information | : Do not re-use empty containers. | | | |
| Ecology - waste materials | Avoid release to the environment. | | | |

SECTION 14: Transport information

| ADR | IMDG | ΙΑΤΑ | ADN | RID |
|--------------------------|----------------|----------------|----------------|----------------|
| 14.1. UN number or ID n | umber | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.2. UN proper shippin | g name | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.3. Transport hazard o | class(es) | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.4. Packing group | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.5. Environmental haz | zards | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |

14.6. Special precautions for user

Overland transport Not applicable Transport by sea Not applicable Air transport Not applicable

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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

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

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.

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

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

| Abbreviations and acronyms: | | | | |
|-----------------------------|---|--|--|--|
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways | | | |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road | | | |
| ATE | Acute Toxicity Estimate | | | |
| BLV | Biological limit value | | | |
| CAS-No. | Chemical Abstract Service number | | | |
| CLP | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 | | | |
| DMEL | Derived Minimal Effect level | | | |
| DNEL | Derived-No Effect Level | | | |
| EC50 | Median effective concentration | | | |
| EC-No. | European Community number | | | |
| EN | European Standard | | | |
| ΙΑΤΑ | International Air Transport Association | | | |
| IMDG | International Maritime Dangerous Goods | | | |
| LC50 | Median lethal concentration | | | |
| LD50 | Median lethal dose | | | |
| LOAEL | Lowest Observed Adverse Effect Level | | | |
| NOAEC | No-Observed Adverse Effect Concentration | | | |
| NOAEL | No-Observed Adverse Effect Level | | | |

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| - | | | |
|--------------------------------------|--|--|--|
| NOEC | No-Observed Effect Concentration | | |
| OEL | Occupational Exposure Limit | | |
| РВТ | Persistent Bioaccumulative Toxic | | |
| PNEC | Predicted No-Effect Concentration | | |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 | | |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail | | |
| SDS | Safety Data Sheet | | |
| vPvB | Very Persistent and Very Bioaccumulative | | |
| WGK | Water Hazard Class | | |
| BCF | Bioconcentration factor | | |
| BOD | Biochemical oxygen demand (BOD) | | |
| COD | Chemical oxygen demand (COD) | | |
| IARC | International Agency for Research on Cancer | | |
| OECD | Organisation for Economic Co-operation and Development | | |
| STP | Sewage treatment plant | | |
| ThOD | Theoretical oxygen demand (ThOD) | | |
| TLM | Median Tolerance Limit | | |
| VOC | Volatile Organic Compounds | | |
| N.O.S. | Not Otherwise Specified | | |
| ED | Endocrine disrupting properties | | |
| Data sources | REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. Supplier's safety documents. | | |
| Training advice Other information | : Training staff on good practice. : SDS prepared by. H2 Compliance. | | |

| Full text of H- and EUH-statements: | | | |
|-------------------------------------|---|--|--|
| Acute Tox. 4 (Dermal) | Acute toxicity (dermal), Category 4 | | |
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 | | |
| Aquatic Acute 1 | Hazardous to the aquatic environment — Acute Hazard, Category 1 | | |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 | | |
| Skin Corr. 1B | Skin corrosion/irritation, Category 1, Sub-Category 1B | | |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 | | |
| H302 | Harmful if swallowed. | | |
| H312 | Harmful in contact with skin. | | |
| H314 | Causes severe skin burns and eye damage. | | |
| H315 | Causes skin irritation. | | |
| H318 | Causes serious eye damage. | | |
| H400 | Very toxic to aquatic life. | | |

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| Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]: | | | | | |
|---|------|--------------------|--|--|--|
| Skin Irrit. 2 | H315 | Calculation method | | | |
| Eye Dam. 1 | H318 | Calculation method | | | |

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.