

Synerzine Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 06/15/2015 Revision date: 03/30/2017

| SECTION 1: Identification | | | |
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| 1.1. Identification | | | |
| Product form | : Substance | | |
| Substance name | Homofuronol-96% | | |
| Chemical name | : 2-ethyl-4-hydroxy-5-methyl-3(2H)-furanone | | |
| CAS-No. | : 27538-10-9 | | |
| Product code | : (US) W0564-96 | | |
| Formula | : C7H1003 | | |
| Synonyms | : 2-Ethyl-4-hydroxy-5-methyl-3(2H)-furanone / 2-Ethyl-4-hydroxy-5-methylfuran-3(2H)-one / Furan(2H)-3-one, 2-ethyl-4-hydroxy-5-methyl- | | |
| 1.2. Recommended use and restr | ictions on use | | |
| No additional information available | | | |
| 1.3. Supplier | | | |
| Synerzine 5340 Hwy 42 S Ellenwood, Georgia 30294 - USA T 404-524-6744 - F 404-577-1651 <u>info@synerzine.com</u> - <u>www.synerzine.com</u> | | | |
| 1.4. Emergency telephone number | | | |
| Emergency number | : Infotrac 1-800-535-5053 (Contract# 102471) Dial +1-352-323-3500 when outside the US | | |
| SECTION 2: Hazard(s) identification | ation | | |
| 2.1. Classification of the substan | nce or mixture | | |
| GHS-US classification | | | |
| Flammable liquids Category H227 | Combustible liquid | | |
| 4 Acute toxicity (oral) H302 Category 4 | Harmful if swallowed | | |
| Full text of H statements : see section 16 | | | |
| | | | |
| | ng precautionary statements | | |
| GHS-US labeling Hazard pictograms (GHS-US) | | | |
| Signal word (GHS-US) | : Warning | | |
| Hazard statements (GHS-US) | : H227 - Combustible liquid H302 - Harmful if swallowed | | |
| Precautionary statements (GHS-US) | P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. heat, hot surfaces, open flames, sparks P264 - Wash hands, forearms and face thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P280 - Wear eye protection, face protection, protective clothing, protective gloves. P301+P312 - If swallowed: Call a doctor, a POISON CENTER if you feel unwell P330 - Rinse mouth. P370+P378 - In case of fire: Use alcohol resistant foam, carbon dioxide (CO2), dry sand to extinguish. P403+P235 - Store in a well-ventilated place. Keep cool. P501 - Dispose of contents/container to an approved waste disposal plant | | |

2.3. Other hazards which do not result in classification

No additional information available

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| Not applicable SECTION 3: Composition/Information on ingredients SECTION 4: First-aid measures SECTION 4: First-aid measures SECTION 4: First-aid measures SECTION 5: First-fighting measure SECTION 5: First-fighting measures SECTION 5: First-fighting measures SECTION 5: First-fighting measures SECTION 5: First-fighting measures SECTION 6: Accidental frequencies SEC | 2.4. Unknown acute toxicity (GH | | | | |
|--|--|-------------------------------------|----------------------------|-----------------|------------------------------------|
| Substances Substances Name Product identifier % GHS-US dassification Ronduron/Soft (ubin constituent) (CGS-Na) 27538-10-9 96 - 100 Ram. Lot, 4.827 Acute Tox. 4 (Oral), 4.302 Soft applicable SECTION 4.5 First-ald measures general : Call a poison center/doctor/physician if you feel unwell. Strat-ad measures after siki nontact : Call a poison center/doctor/physician if you feel unwell. Strat-ad measures after siki nontact : Wash siki with pieny of Water. Strat-ad measures after siki nontact : Strat-ad measures after siki nontact : Rinse eyes with water as a precaution. :::::::::::::::::::::::::::::::::::: | Not applicable | 5.051 | | | |
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| Name Product identifier % G135-US classification Frome from out-90% (trans matheme) Transmitzer 96-10 Film Lig 4, H227 Arous Tex. 4 (Dral), H302 Valuation matheme) Sector 10 and 10 | | ination on ingreatents | | | |
| Iterational 49% Ites No. 27538-10-9 96-100 Plan. Eq. 4, 1227 Acate Tox 4 (Oral). H302 Full text of hazard classes and H-statements : see section 16 | | | Duodust identifien | 07 | CUS US alogoification |
| (Make constrained) Acute Tox 4 (Oral), H302 Pull text of hazard classes and H-statements : see section 16 4. Acute Tox 4 (Oral), H302 Pull text of hazard classes and H-statements : see section 16 5. Mittiget Sector 100 41: First-aid measures 5. Call a poison center/doctor/physician if you feel unwell. Circle and measures after inhalation : Remove person to fresh air and keep contrable for breathing. Virst-aid measures after skin contact : Wash skin with penty of water. Virst-aid measures after skin contact : Mine eyes with water as a precaution. Virst-aid measures after skin contact : Mine eyes with water as a precaution. Virst-aid measures after skin contact : Mine eyes with water as a precaution. Virst-aid measures after skin contact : Mine eyes with water as a precaution. Virst-aid measures after skin contact : Mine mouth. Call a poison center/doctor/physician if you feel unwell. 1.3. Most important symptoms and effects (acute and delayed) No additional information available 1.3. Most important symptoms and effects (acute and delayed) No additional information available 5.1. Soriable (and unsuitable) extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide. 5.2. Specific hazard sarising from the chemical : Combustible liquid. Reactify in Call pre | | | | | |
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| 5.3. Methods and material for containment and cleaning up Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters. Other information : Dispose of materials or solid residues at an authorized site. | 6.2. Environmental precautions | | | | |
| Methods for cleaning up: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.Other information: Dispose of materials or solid residues at an authorized site. | Avoid release to the environment. | | | | |
| waters. Other information : Dispose of materials or solid residues at an authorized site. | 6.3. Methods and material for c | ontainment and cleaning up | | | |
| ····· | Methods for cleaning up | | orbent material. Notify a | uthorities if p | roduct enters sewers or public |
| 5.4. Reference to other sections | Other information | : Dispose of materials or soli | d residues at an authorize | ed site. | |
| | 6.4. Reference to other sections | | | | |

For further information refer to section 13.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| SECTION 7: Handling and stor | age |
|---|---|
| 7.1. Precautions for safe handl | ing |
| Precautions for safe handling | : Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protective equipment. |
| 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 | e, including any incompatibilities |
| Storage conditions | : Store in a well-ventilated place. Keep cool. |
| SECTION 8: Exposure controls | /personal protection |
| 8.1. Control parameters | |
| No additional information available | |
| | |
| 8.2. Appropriate engineering co | antrols |
| 0.2. Appropriate engineering co | |
| Appropriate engineering controls | : Ensure good ventilation of the work station. |
| | |
| Appropriate engineering controls Environmental exposure controls | : Ensure good ventilation of the work station. |
| Appropriate engineering controls Environmental exposure controls | Ensure good ventilation of the work station.Avoid release to the environment. |
| Appropriate engineering controls Environmental exposure controls 8.3. Individual protection meas Hand protection: | Ensure good ventilation of the work station.Avoid release to the environment. |
| Appropriate engineering controls Environmental exposure controls 8.3. Individual protection meas | Ensure good ventilation of the work station.Avoid release to the environment. |
| Appropriate engineering controls Environmental exposure controls 8.3. Individual protection meas Hand protection: Protective gloves Eye protection: | Ensure good ventilation of the work station.Avoid release to the environment. |
| Appropriate engineering controls Environmental exposure controls 8.3. Individual protection meas Hand protection: Protective gloves | Ensure good ventilation of the work station.Avoid release to the environment. |
| Appropriate engineering controls Environmental exposure controls 8.3. Individual protection meas Hand protection: Protective gloves Eye protection: Safety glasses | Ensure good ventilation of the work station.Avoid release to the environment. |
| Appropriate engineering controls Environmental exposure controls 8.3. Individual protection meas Hand protection: Protective gloves Eye protection: Safety glasses Skin and body protection: | Ensure good ventilation of the work station.Avoid release to the environment. |

| 9.1. Information on basic physica | and chemical properties | |
|---|--|-----|
| Physical state | : Liquid | |
| Appearance | : A yellow to brown clear liquid to crystalline solid. | |
| Color | : yellow to brown | |
| Odor | : Sweet caramel-like butterscotch aroma | |
| Odor threshold | : No data available | |
| pH | : No data available | |
| Melting point | : 31 - 35 °C | |
| Freezing point | : No data available | |
| Boiling point | : 248 - 249 °C | |
| Flash point | : 184 °F TCC | |
| Relative evaporation rate (butyl acetate=1) | : No data available | |
| Flammability (solid, gas) | : Not applicable. | |
| Vapor pressure | : No data available | |
| Relative vapor density at 20 °C | : No data available | |
| Relative density | : No data available | |
| Specific gravity / density | $: 1.137 \text{g/cm}^3$ | |
| Molecular mass | : 142.15 g/mol | |
| Solubility | : Soluble in alcohols. insoluble in water. | |
| Log Pow | : No data available | |
| Auto-ignition temperature | : No data available | |
| 06/22/2018 | EN (English US) | 3/6 |
| | | |

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| Decomposition temperature | : No data available |
|---------------------------|---------------------|
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosion limits | : No data available |
| Explosive properties | : No data available |
| Oxidizing properties | : No data available |

9.2. Other information

No additional information available

10.1. Reactivity

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

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1. Information on toxicological effects

| Acute toxicity | : Not classified |
|--|-----------------------|
| Homofuronol-96% (27538-10-9) | |
| ATE US (oral) | 500 mg/kg body weight |
| Skin corrosion/irritation | : Not classified |
| Serious eye damage/irritation | : Not classified |
| Respiratory or skin sensitization | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| Reproductive toxicity | : Not classified |
| Specific target organ toxicity – single exposure | : Not classified |
| Specific target organ toxicity – repeated exposure | : Not classified |
| Aspiration hazard | : Not classified |

| SECTION 12: Ecological information | | | |
|------------------------------------|-------------------------------|--|--|
| 12.1. | Toxicity | | |
| Ecology - | general | : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment. | |
| 12.2. | Persistence and degradability | | |
| No additi | ional information available | | |
| 12.3. | Bioaccumulative potential | | |
| No addit | ional information available | | |
| 12.4. | Mobility in soil | | |

No additional information available

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

12.5. Other adverse effects

No additional information available

| DOT Quantity Limitations Passenger aircraft/rail : 60 L (49 CFR 173.27) DOT Quantity Limitations Cargo aircraft only (49 : 220 L CFR 175.75) DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel. Other information : No supplementary information available. Transportation of Dangerous Goods Not regulated Transport by sea Not regulated Air transport | aste treatment methods | |
|--|--|--|
| Department of Transport document description : NA1993 Combustible liquid, n.o.s., 3, III Transport document description : NA1993 Combustible liquid, n.o.s., 3, III UN-No.(DOT) : NA1993 Proper Shipping Name (DOT) : Combustible liquid, n.o.s. Lass (DOT) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120 Packing group (DOT) : III - Minor Danger DOT Packaging Bulk (49 CFR 173.xxx) : 203 DOT Packaging Bulk (49 CFR 173.xxx) : 241 DOT Special Provisions (49 CFR 172.102) : IB3 - Authorized IBCs: Metal (31A, 31B and 31H); Liquid plastics (31H and 31H2): Composite (31HZ1 and 31HZ2, 31HDZ, 31HDZ, 31HDZ, 31HDZ, 31HDZ, 21HDZ, 31HDZ, 21HDZ, 31HDZ, 21HDZ, 31HDZ, 21HDZ, 31HDZ, 21HDZ, 31HDZ, 21HDZ, 31HDZ, 21HOZ, 21HO, 21A at 25 C (1.3 bar at 13 F), Composite (31HZ1 and 31HA2, 31HDZ, 21HDZ, 31HDZ, 21HDZ, 21HO, 21 at at 25 C),, T1 - 1.5 178.274(J(2) Normal | | : Dispose of contents/container in accordance with licensed collector's sorting instructions. |
| In accordance with DOT Transport document description I Recordance with DOT Transport document description I Recordance with DOT I Recordance with DOT I Recordance with DOT I Recordance description I Record I | ECTION 14: Transport information | on |
| UN-No.(DOT):NA1993Proper Shipping Name (DOT)::Combustible liquid, n.o.s.Class (DOT):::-Class 3 - Flammable and combustible liquid 49 CFR 173.120Packing group (DOT)::II - Minor DangerDOT Packaging Non Bulk (49 CFR 173.xxx)::203DOT Packaging Bulk (49 CFR 173.xxx):::DOT Symbols:D - Proper shipping name for domestic use only, or to and from Canada, G - Identifies PSN requirin a technical nameDOT Special Provisions (49 CFR 172.102):::B3. Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31H2, 31H12, 3 | • • • • • | |
| Proper Shipping Name (DOT)::Combustible liquid, n.o.s.Class (OT)::< | ransport document description | : NA1993 Combustible liquid, n.o.s., 3, III |
| Class (DOT) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120 Packing group (DOT) : III - Minor Danger DOT Packaging Non Bulk (49 CFR 173.xxx) : 203 DOT Packaging Bulk (49 CFR 173.xxx) : 241 DOT Symbols : D - Proper shipping name for domestic use only, or to and from Canada,G - Identifies PSN requirin a technical name DOT Special Provisions (49 CFR 172.102) : IB - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 VP at 50 C (1.1 bar at 122 F), or 130 kP at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IPB in Table 2 for UN2672), T1 - 15 178.274(d)(2) Normal | N-No.(DOT) | : NA1993 |
| Packing group (DOT):III - Minor DangerDOT Packaging Non Bulk (49 CFR 173.xxx):203DOT Packaging Bulk (49 CFR 173.xxx):241DOT Symbols:D- Proper shipping name for domestic use only, or to and from Canada,G - Identifies PSN requirin a technical nameDOT Special Provisions (49 CFR 172.102):IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31H2 1 and 31H42, 13H1B2, 31H2, 31H2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T1 - 1.5 178.274(d)(2) Normal | roper Shipping Name (DOT) | : Combustible liquid, n.o.s. |
| DOT Packaging Non Bulk (49 CFR 173.xxx): 203DOT Packaging Bulk (49 CFR 173.xxx): 241DOT Symbols: D - Proper shipping name for domestic use only, or to and from Canada,G - Identifies PSN requirin a tacchnical nameDOT Special Provisions (49 CFR 172.102): IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31H2, 31HB2, 31HB2, 31HB2, 31HD2) and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 har at 122 F), or 130 kPa at 55 C (1.1 har at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T1 - 1.5 178.274(d)(2) Normal | ass (DOT) | : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120 |
| DOT Packaging Bulk (49 CFR 173.xxx) : 241 DOT Symbols : D - Proper shipping name for domestic use only, or to and from Canada,G - Identifies PSN requirin a technical name DOT Special Provisions (49 CFR 172.102) : IB - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31H | acking group (DOT) | : III - Minor Danger |
| DOT Symbols : D - Proper shipping name for domestic use only, or to and from Canada, G - Identifies PSN requirin a technical name DOT Special Provisions (49 CFR 172.102) : IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31H21 and 31HA2, 31HB2, 31HB2, 31HD2, 31HD2, 31HD2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T1 - 1.5 178.274(d)(2) Normal | OT Packaging Non Bulk (49 CFR 173.xxx) | : 203 |
| a technical name a technical name DOT Special Provisions (49 CFR 172.102) : IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IPB in Table 2 for UN2672). T1 - 1.5 178.274(d)(2) Normal | OT Packaging Bulk (49 CFR 173.xxx) | : 241 |
| (31HZ1 and 31HA2, 31HB2, 31HB2, 31HD2, 31H | OT Symbols | |
| DOT Quantity Limitations Passenger aircraft/rail : 60 L (49 CFR 173.27) DOT Quantity Limitations Cargo aircraft only (49 : 220 L CFR 175.75) DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel. | OT Special Provisions (49 CFR 172.102) | (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T1 - 1.5 178.274(d)(2) Normal 178.275(d)(2) T4 - 2.65 178.274(d)(2) Normal |
| (49 CFR 173.27) 220 L DOT Quantity Limitations Cargo aircraft only (49 : 220 L : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel. DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel. Other information : No supplementary information available. Transportation of Dangerous Goods : No supplementary information available. Not regulated : Intransport by sea Not regulated : Intransport | OT Packaging Exceptions (49 CFR 173.xxx) | : 150 |
| CFR 175.75) DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel. Other information : No supplementary information available. Transportation of Dangerous Goods Not regulated Transport by sea Not regulated Air transport | | : 60 L |
| vessel. Other information : No supplementary information available. Transportation of Dangerous Goods Not regulated Transport by sea Not regulated Air transport | | : 220 L |
| Transportation of Dangerous Goods Not regulated Transport by sea Not regulated Air transport | OT Vessel Stowage Location | |
| Not regulated Transport by sea Not regulated Air transport | ther information | : No supplementary information available. |
| Transport by sea Not regulated Air transport | ransportation of Dangerous Goods | |
| Not regulated Air transport | ot regulated | |
| Air transport | ransport by sea | |
| | ot regulated | |
| Not regulated | ir transport | |
| | ot regulated | |

Homofuronol-96% (27538-10-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

15.2. International regulations

CANADA

Homofuronol-96% (27538-10-9)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

Homofuronol-96% (27538-10-9)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

National regulations

Homofuronol-96% (27538-10-9)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ISHL (Industrial Safety and Health Law)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

15.3. US State regulations

No additional information available

SECTION 16: Other information Revision date : 03/30/2017 Full text of H-phrases:

| | H227 | Combustible liquid |
|------|-----------------|--|
| | H302 | Harmful if swallowed |
| NFPA | health hazard | : 1 - Materials that, under emergency conditions, can cause significant irritation. |
| NFPA | fire hazard | : 2 - Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur. |
| NFPA | reactivity | : 0 - Material that in themselves are normally stable, even under fire conditions. |
| Haza | ard Rating | |
| Heal | th | : 1 Slight Hazard - Irritation or minor reversible injury possible |
| Flan | ımability | : 2 Moderate Hazard - Materials which must be moderately heated or exposed to high ambient temperatures before ignition will occur. Includes liquids having a flash point at or above 100 F but below 200 F. (Classes II & IIIA) |
| Phys | sical | : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives. |
| Pers | onal protection | : B |
| | | B - Safety glasses, Gloves |

Synerzine US

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