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

- **1.1 Product identifier**
  - Trade name: CERETAN® MM 8220

- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
  - No further relevant information available.

- **Application of the substance / the mixture**
  - Additive

- **1.3 Details of the supplier of the safety data sheet**
  - Manufacturer/Supplier:
    - MUNZING Micro Technologies GmbH
    - Dr.-Bergius-Straße 16-24
    - 06729 Elsteraue, Germany
    - E-Mail: ceretan@munzing.com
    - Tel.: +49 3441 829 10-22

- **Further information obtainable from:**
  - Product Safety Department
  - E-mail (MSDS): madds@munzing.com

- **1.4 Emergency telephone number:** For Chemical Emergencies: CHEMTREC: +1 703 741 5970

**SECTION 2: Hazards identification**

- **2.1 Classification of the substance or mixture**
  - Classification according to Regulation (EC) No 1272/2008
    - The product is not classified as hazardous, according to the CLP regulation.

- **2.2 Label elements**
  - Labelling according to Regulation (EC) No 1272/2008
  - Hazard pictograms Void
  - Signal word Void
  - Hazard statements Void

- **2.3 Other hazards**
  - Risk of dust explosion
  - Results of PBT and vPvB assessment Not applicable.
  - PBT: None.
  - vPvB: None.

**SECTION 3: Composition/information on ingredients**

- **3.2 Chemical characterisation:** Mixtures
  - Description: micronized montan wax
  - Dangerous components: Void

**SECTION 4: First aid measures**

- **4.1 Description of first aid measures**
  - General information: No special measures required.
  - After inhalation: Supply fresh air; consult doctor in case of complaints.
  - After skin contact: Immediately wash with water and soap and rinse thoroughly.
  - After eye contact:
    - Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
  - After swallowing:
    - If symptoms persist consult doctor.

- **4.2 Most important symptoms and effects, both acute and delayed**
  - No further relevant information available.

(Contd. on page 2)
7.3 Specific end use(s) No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media
- Suitable extinguishing agents: CO2, powder or water spray. Fight larger fire with alcohol resistant foam.
- For safety reasons unsuitable extinguishing agents: Water with full jet

5.2 Special hazards arising from the substance or mixture
- Formation of toxic gases is possible during heating or in case of fire.
- In case of fire, the following can be released:
  - Carbon monoxide (CO)
  - Nitrogen oxides (NOx)

5.3 Advice for firefighters
- Protective equipment: Do not inhale explosion gases or combustion gases.
- Additional information
  Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
- Avoid formation of dust.
- Use respiratory protective device against the effects of fumes/dust/aerosol.

6.2 Environmental precautions: No special measures required.

6.3 Methods and material for containment and cleaning up: Pick up mechanically.

6.4 Reference to other sections
- No dangerous substances are released.
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
- Keep away from heat and direct sunlight.
- Prevent formation of dust.
- Ensure good ventilation/exhaustion at the workplace.

Information about fire - and explosion protection:
- Protect against electrostatic charges.
- Dust can combine with air to form an explosive mixture.
- Keep ignition sources away - Do not smoke.

7.2 Conditions for safe storage, including any incompatibilities
- Storage:
  - Requirements to be met by storerooms and receptacles: Store in a cool location.
  - Information about storage in one common storage facility: Store away from oxidising agents.
  - Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.

7.3 Specific end use(s) No further relevant information available.
SECTION 8: Exposure controls/personal protection

- Additional information about design of technical facilities: No further data; see item 7.

8.1 Control parameters
- Ingredients with limit values that require monitoring at the workplace:
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls
- Personal protective equipment:
  - General protective and hygienic measures:
    Avoid contact with the eyes and skin.
The usual precautionary measures are to be adhered to when handling chemicals.
Do not inhale dust / smoke / mist.
  - Respiratory protection:
    In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- Protection of hands:
  Only use chemical-protective gloves with CE-labelling of category III.
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
- Material of gloves
  Nitrile rubber, NBR
  Recommended thickness of the material: ≥ 0.4 mm
  The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- Penetration time of glove material
  The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- Eye protection: Safety glasses
- Body protection: Protective work clothing

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties
- General Information
- Appearance:
  - Form: Powder
  - Colour: Whitish
  - Odour: Specific type
  - Odour threshold: Not determined.
- pH-value: Not applicable.
- Change in condition
  - Melting point/freezing point: > 80 °C
  - Initial boiling point and boiling range: Undetermined.
- Flash point: > 200 °C
- Flammability (solid, gas): Product is not flammable.
Safety data sheet  
according to 1907/2006/EC, Article 31  

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Revision: 24.07.2019  

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- Ignition temperature: Not determined.  
- Decomposition temperature: Not determined.  
- Auto-ignition temperature: Product is not selfigniting.  
- Explosive properties: Product is not explosive. However, formation of explosive dust/vapour mixtures are possible.

- Explosion limits:  
  Lower: Not determined.  
  Upper: Not determined.  
- Oxidising properties: None.  
- Vapour pressure: Not applicable.  
- Density:  
  Bulk density:  
  Relative density:  
  Vapour density: Not applicable.  
- Evaporation rate: Not applicable.  
- Solubility in / Miscibility with water: Insoluble.  
- Partition coefficient: n-octanol/water: Not determined.  
- Viscosity:  
  Dynamic: Not applicable.  
- Solvent content:  
  Solids content:  
  9.2 Other information: ST-class = 2

SECTION 10: Stability and reactivity

- 10.1 Reactivity: No further relevant information available.  
- 10.2 Chemical stability:  
  No decomposition if used and stored according to specifications.  
- 10.3 Possibility of hazardous reactions: Risk of dust explosion.  
- 10.4 Conditions to avoid: No further relevant information available.  
- 10.5 Incompatible materials: No further relevant information available.  
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

- 11.1 Information on toxicological effects:  
  Acute toxicity: Based on available data, the classification criteria are not met.  
  Primary irritant effect:  
  Skin corrosion/irritation: Based on available data, the classification criteria are not met.  
  Serious eye damage/irritation: Based on available data, the classification criteria are not met.  
  Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.  
  CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):  
  Germ cell mutagenicity: Based on available data, the classification criteria are not met.  
  Carcinogenicity: Based on available data, the classification criteria are not met.

(Contd. on page 5)
SECTION 12: Ecological information

- 12.1 Toxicity
  - Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability: No further relevant information available.
- 12.3 Bioaccumulative potential: No further relevant information available.
- 12.4 Mobility in soil: No further relevant information available.
- Ecotoxicological effects:
  - Behaviour in sewage processing plants: Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations. Do not release untreated into natural waters.
- Additional ecological information:
  - General notes: Not hazardous for water.
- 12.5 Results of PBT and vPvB assessment
  - According to Annex XIV of Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria. Self-classification.
- 12.6 Other adverse effects: No further relevant information available.

SECTION 13: Disposal considerations

- 13.1 Waste treatment methods
  - Recommendation: Must not be disposed together with household garbage. Do not allow product to reach sewage system.

<table>
<thead>
<tr>
<th>European waste catalogue</th>
<th>16 03 06 organic wastes other than those mentioned in 16 03 05</th>
</tr>
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</table>

- Uncleaned packaging:
  - Recommendation: Disposal must be made according to official regulations.
  - Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information

- 14.1 UN-Number
  - ADR/RID/ADN, ADN, IMDG, IATA: Void
- 14.2 UN proper shipping name
  - ADR/RID/ADN, ADN, IMDG, IATA: Void
- 14.3 Transport hazard class(es)
  - ADR/RID/ADN, ADN, IMDG, IATA: Void
- 14.4 Packing group
  - ADR/RID/ADN, IMDG, IATA: Void
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14.5 Environmental hazards:
- Marine pollutant: No

14.6 Special precautions for user
- Not applicable.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code
- Not applicable.

Transport/Additional information:
- Not a dangerous good to the above specifications.

UN "Model Regulation": Void

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Directive 2012/18/EU
- Named dangerous substances - ANNEX I None of the ingredients is listed.
- National regulations:
- Water hazard class: Not hazardous for water.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department issuing SDS:
Product Safety Department
E-Mail: msds@munzing.com

Abbreviations and acronyms:
- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative