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

1.1 Product identifier

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

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

Further information obtainable from:
Product Safety Department
E-mail (MSDS): msds@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 Void

2.3 Other hazards
Risk of dust explosion

Results of PBT and vPvB assessment
PBT: None.
vPvB: None.

SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures
Description: Stearamide 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)

Water with full jet

Safety data sheet

according to 1907/2006/EC, Article 31

Trade name: CERETAN® A 72

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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.
Wear protective clothing.
Particular danger of slipping on leaked/spilled product.
· 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.

(Contd. on page 3)
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: White
  - Odour: Specific type
  - Odour threshold: Not determined.
- pH-value: Not applicable.
- Change in condition
  - Melting point/freezing point: > 95 °C
  - Initial boiling point and boiling range: Undetermined.
  - Drip point: ≈ 103 °C (DGFM-III 3)
- Flash point: < 290 °C
- Flammability (solid, gas): Product is not flammable.
50.0.4 Possibility of hazardous reactions

- 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: Not determined.
  - Relative density: < 1 g/cm³
  - 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: ≈ 100 %

9.2 Other information
No further relevant information available.

SECTION 10: Stability and reactivity

- 10.1 Reactivity No further relevant information available.
- 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided:
  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.
- Reproductive toxicity Based on available data, the classification criteria are not met.

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**Safety data sheet**

*according to 1907/2006/EC, Article 31*

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<table>
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<tr>
<th><strong>SECTION 12: Ecological information</strong></th>
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</thead>
<tbody>
<tr>
<td><strong>12.1 Toxicity</strong></td>
</tr>
<tr>
<td><em>Aquatic toxicity:</em> No further relevant information available.</td>
</tr>
<tr>
<td><strong>12.2 Persistence and degradability</strong></td>
</tr>
<tr>
<td>Easily eliminable from water.</td>
</tr>
<tr>
<td><strong>12.3 Bioaccumulative potential</strong></td>
</tr>
<tr>
<td>No further relevant information available.</td>
</tr>
<tr>
<td><strong>12.4 Mobility in soil</strong></td>
</tr>
<tr>
<td>No further relevant information available.</td>
</tr>
<tr>
<td><strong>Ecotoxicity</strong></td>
</tr>
<tr>
<td><strong>Behaviour in sewage processing plants:</strong></td>
</tr>
<tr>
<td>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.</td>
</tr>
<tr>
<td><strong>Additional ecological information:</strong></td>
</tr>
<tr>
<td><strong>General notes:</strong> Not hazardous for water.</td>
</tr>
<tr>
<td><strong>12.5 Results of PBT and vPvB assessment</strong></td>
</tr>
<tr>
<td>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.</td>
</tr>
<tr>
<td><strong>12.6 Other adverse effects</strong></td>
</tr>
<tr>
<td>No further relevant information available.</td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th><strong>SECTION 13: Disposal considerations</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>13.1 Waste treatment methods</strong></td>
</tr>
<tr>
<td><strong>Recommendation</strong></td>
</tr>
<tr>
<td>Must not be disposed together with household garbage. Do not allow product to reach sewage system.</td>
</tr>
</tbody>
</table>

**European waste catalogue**

16 03 06 organic wastes other than those mentioned in 16 03 05

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

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<table>
<thead>
<tr>
<th><strong>SECTION 14: Transport information</strong></th>
</tr>
</thead>
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<td><strong>14.1 UN-Number</strong></td>
</tr>
<tr>
<td>ADR/RID/ADN, ADN, IMDG, IATA</td>
</tr>
<tr>
<td><strong>14.2 UN proper shipping name</strong></td>
</tr>
<tr>
<td>ADR/RID/ADN, ADN, IMDG, IATA</td>
</tr>
<tr>
<td><strong>14.3 Transport hazard class(es)</strong></td>
</tr>
<tr>
<td>ADR/RID/ADN, ADN, IMDG, IATA</td>
</tr>
<tr>
<td><strong>14.4 Packing group</strong></td>
</tr>
<tr>
<td>ADR/RID/ADN, IMDG, IATA</td>
</tr>
</tbody>
</table>

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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