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

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:
MÜNZING Micro Technologies GmbH
Dr.-Bergius-Straße 16-24
06729 Elsterbude, Germany
E-Mail: ceretan@munzing.com
Tel.: +49 3441 829 10-22

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

Label according to Regulation (EC) No 1272/2008 Void

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

2.2 Label elements

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

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.
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.
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: Light yellow
      Odour: Weak, characteristic
      Odour threshold: Not determined.
    - pH-value: Not applicable.
  - Change in condition
    Melting point/freezing point: > 80 °C
    Initial boiling point and boiling range: Undetermined.
    Drip point: ≈ 85 °C (DGF M-III 3)
  - Flash point: > 200 °C
  - Flammability (solid, gas): Product is not flammable.
\textbf{Safety data sheet} \\
\textit{according to 1907/2006/EC, Article 31}

\textbf{Trade name: CERETAN® MC 6030}

(Contd. of page 3)

\begin{itemize}
  \item Ignition temperature: \hspace{1cm} > 180 °C
  \item Decomposition temperature: \hspace{1cm} Not determined.
  \item Auto-ignition temperature: \hspace{1cm} Product is not selfigniting.
  \item Explosive properties: \hspace{1cm} Product is not explosive. However, formation of explosive dust/vapour mixtures are possible.
  \item Explosion limits:
    \begin{itemize}
      \item Lower: \hspace{1cm} Not determined.
      \item Upper: \hspace{1cm} Not determined.
    \end{itemize}
    \item Oxidising properties: \hspace{1cm} None.
  \item Vapour pressure: \hspace{1cm} Not applicable.
  \item Density at 23 °C: \hspace{1cm} ≈ 0.995 g/cm³ (DIN EN ISO 1183)
  \item Bulk density at 20 °C: \hspace{1cm} ≈ 0.3 g/cm³ (DGF H-II 1b)
  \item Relative density: \hspace{1cm} Not determined.
  \item Vapour density: \hspace{1cm} Not applicable.
  \item Evaporation rate: \hspace{1cm} Not applicable.
  \item Solubility in / Miscibility with water: \hspace{1cm} Insoluble.
  \item Partition coefficient: n-octanol/water: \hspace{1cm} Not determined.
  \item Viscosity:
    \begin{itemize}
      \item Dynamic: \hspace{1cm} Not applicable.
    \end{itemize}
  \item Solvent content:
    \begin{itemize}
      \item 9.2 Other information: \hspace{1cm} ≈ 100 %
      \item ST-class = 2
    \end{itemize}
\end{itemize}

\section*{SECTION 10: Stability and reactivity}

\begin{itemize}
  \item 10.1 Reactivity: No further relevant information available.
  \item 10.2 Chemical stability:
    \begin{itemize}
      \item Thermal decomposition / conditions to be avoided: No decomposition if used and stored according to specifications.
      \item Thermal decomposition / conditions to be avoided: Risk of dust explosion.
      \item 10.4 Conditions to avoid: No further relevant information available.
      \item 10.5 Incompatible materials: No further relevant information available.
      \item 10.6 Hazardous decomposition products: No dangerous decomposition products known.
    \end{itemize}
\end{itemize}

\section*{SECTION 11: Toxicological information}

\begin{itemize}
  \item 11.1 Information on toxicological effects:
    \begin{itemize}
      \item Acute toxicity: Based on available data, the classification criteria are not met.
      \item Primary irritant effect:
        \begin{itemize}
          \item Skin corrosion/irritation: Based on available data, the classification criteria are not met.
          \item Serious eye damage/irritation: Based on available data, the classification criteria are not met.
          \item Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.
        \end{itemize}
      \item CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):
        \begin{itemize}
          \item Germ cell mutagenicity: Based on available data, the classification criteria are not met.
          \item Carcinogenicity: Based on available data, the classification criteria are not met.
        \end{itemize}
    \end{itemize}
  \item (Contd. on page 5)
Safety data sheet
according to 1907/2006/EC, Article 31

Trade name: CERETAN® MC 6030

(Contd. of page 4)

· Reproductive toxicity Based on available data, the classification criteria are not met.
· STOT-single exposure Based on available data, the classification criteria are not met.
· STOT-repeated exposure Based on available data, the classification criteria are not met.
· Aspiration hazard Based on available data, the classification criteria are not met.

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.
· Ecotoxical 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>
</tr>
</thead>
<tbody>
<tr>
<td>16 03 06 organic wastes other than those mentioned in 16 03 05</td>
</tr>
</tbody>
</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
  · Class Void
· 14.4 Packing group
  · ADR/RID/ADN, ADN, IMDG, IATA Void

(Contd. on page 6)
### 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