

**Material Safety Data Sheet**  
According to 91/155 EEC

Printing date 08.06.2006

Reviewed on 08.06.2006

*	<p><b>1 Identification of substance:</b></p> <ul style="list-style-type: none"> <li>• <b>Product details:</b></li> <li>• <b>Trade name:</b> <u>MDC Cupro Neat</u></li> <li>• <b>Article number:</b> 15672</li> <li>• <b>Manufacturer/Supplier:</b> MDC Max Daetwyler AG Flugplatz CH-3368 Bleienbach Phone ++ 41 (0) 62 919 37 37 Fax ++ 41 (0) 62 919 34 00 mdc@daetwyler-graphics.ch</li> <li>• <b>Emergency information:</b> Swiss Toxicological Information Centre CH-8030 ZÜRICH Tel.: +41 (0)1 251 51 51 National emergency call: 145</li> </ul>												
*	<p><b>2 Composition/Data on components:</b></p> <ul style="list-style-type: none"> <li>• <b>Chemical characterization</b></li> <li>• <b>Description:</b> Mixture of the substances listed below with nonhazardous additions.</li> <li>• <b>Dangerous components:</b></li> </ul> <table border="0" style="width: 100%;"> <tbody> <tr> <td style="border-top: 1px solid black;">CAS: 5949-29-1</td> <td style="border-top: 1px solid black;">Citric acid monohydrate</td> <td style="border-top: 1px solid black; text-align: right;">2.5-10%</td> </tr> <tr> <td>EINECS: 201-069-1</td> <td>Xi; R 36</td> <td></td> </tr> <tr> <td style="border-top: 1px solid black;">CAS: 872-50-4</td> <td style="border-top: 1px solid black;">N-methyl-2-pyrrolidone</td> <td style="border-top: 1px solid black; text-align: right;">&lt; 2.5%</td> </tr> <tr> <td>EINECS: 212-828-1</td> <td>Xi; R 36/38</td> <td></td> </tr> </tbody> </table> <ul style="list-style-type: none"> <li>• <b>Additional information</b> For the wording of the listed risk phrases refer to section 16.</li> </ul>	CAS: 5949-29-1	Citric acid monohydrate	2.5-10%	EINECS: 201-069-1	Xi; R 36		CAS: 872-50-4	N-methyl-2-pyrrolidone	< 2.5%	EINECS: 212-828-1	Xi; R 36/38	
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*	<p><b>3 Hazards identification</b></p> <ul style="list-style-type: none"> <li>• <b>Hazard description:</b> not applicable</li> <li>• <b>Information pertaining to particular dangers for man and environment</b> The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.</li> <li>• <b>Classification system</b> The classification was made according to the latest editions of the EU-lists, and expanded upon from company and literature data.</li> </ul>												
	<p><b>4 First aid measures</b></p> <ul style="list-style-type: none"> <li>• <b>General information</b> No special measures required.</li> <li>• <b>After inhalation</b> Supply fresh air; consult doctor in case of complaints.</li> <li>• <b>After skin contact</b> Generally the product does not irritate the skin.</li> <li>• <b>After eye contact</b> Rinse opened eye for 15 minutes under running water.</li> <li>• <b>After swallowing</b> If symptoms persist consult doctor.</li> <li>• <b>Information for doctor</b> Repeated exposure may cause skin dryness or skin disease (dermatitis).</li> </ul>												
	<p><b>5 Fire fighting measures</b></p> <ul style="list-style-type: none"> <li>• <b>Suitable extinguishing agents</b> CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.</li> <li>• <b>Special hazards caused by the material, its products of combustion or resulting gases:</b> In case of fire, the following can be released: Carbon monoxide (CO)</li> <li>• <b>Protective equipment:</b> No special measures required.</li> </ul>												

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**6 Accidental release measures**

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:**  
Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**  
Pick up mechanically.  
Dispose contaminated material as waste according to item 13.
- **Additional information:** No dangerous substances are released.

**7 Handling and storage**

- **Handling**
- **Information for safe handling:** Open and handle receptacle with care.
- **Information about protection against explosions and fires:**  
No special measures required.
- **Storage**
- **Requirements to be met by storerooms and receptacles:**  
No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.

**8 Exposure controls and personal protection**

- **Additional information about design of technical systems:**  
No further data; see item 7.
- **Components with limit values that require monitoring at the workplace:**  
**872-50-4 N-methyl-2-pyrrolidone**  
OES Short-term value: 309 mg/m<sup>3</sup>, 75 ppm  
Long-term value: 103 mg/m<sup>3</sup>, 25 ppm  
Sk
- **Additional information:**  
The lists that were valid during the creation were used as basis.
- **Personal protective equipment**
- **General protective and hygienic measures**  
The usual precautionary measures should be adhered to when handling chemicals.
- **Breathing equipment:** Not required.
- **Protection of hands:**  
Protective gloves.  
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves**  
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:** Goggles recommended during refilling.

**9 Physical and chemical properties:**

- **General Information**

**Form:** pasty

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- |  |   |
|--|---|
| <b>Colour:</b>                                   | beige   |
| <b>Odour:</b>                                    | characteristic                                |
| · <b>Change in condition</b>                     |   |
| <b>Melting point/Melting range:</b>              | undetermined                                  |
| <b>Boiling point/Boiling range:</b>              | 100°C (DIN 51761)                             |
| · <b>Flash point:</b>                            | > 70°C (DIN 51755)                            |
| · <b>Self igniting:</b>                          | Product is not self-igniting.                 |
| · <b>Danger of explosion:</b>                    | Product does not present an explosion hazard. |
| · <b>Vapour pressure at 20°C:</b>                | 23.0 hPa (DIN 51754)                          |
| · <b>Density:</b>                                | not determined                                |
| · <b>Solubility in / Miscibility with Water:</b> | fully miscible                                |
| · <b>pH-value at 20°C:</b>                       | 3.0   |
| · <b>Solvent content:</b>                        |   |
| · <b>Solids content:</b>                         | 36.0 %  |

**10 Stability and reactivity**

- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known
- **Dangerous products of decomposition:**  
No dangerous decomposition products known

**11 Toxicological information**

- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:**  
There are no quantitative data available on the toxicological effects of this product.
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritant effect.
- **Sensitization:** No sensitising effects known.
- **Additional toxicological information:**  
The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:  
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

**12 Ecological information:**

- **Information about elimination (persistence and degradability):**  
There are no quantitative data available on the ecological effects of this product.
- **General notes:**  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**13 Disposal considerations**

- **Product:**
- **Recommendation**  
Smaller quantities can be disposed of with household waste.

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- **Uncleaned packagings:**
- **Recommendation:** Disposal according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

**14 Transport information**

- **Land transport ADR/RID (cross-border)**
- **ADR/RID class:** -
- **Maritime transport IMDG:**
- **IMDG Class:** -
- **Marine pollutant:** No
- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -
- **Transport/Additional information:**  
 Transport Emergency Card (Road):  
 Number: -

**15 Regulations**

- **Markings according to EU guidelines:**  
 Observe the general safety regulations when handling chemicals  
 The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (GefStoffV).
- **Hazard-determining components of labelling:**  
 N-methyl-2-pyrrolidone
- **Special labelling of certain preparations:**  
 Safety data sheet available for professional user on request.
- **National regulations**  
 Swiss Legislation:  
 BAGT-Nr./BAG-EDV-Nr. : 611 500  
 class of toxicity : 0 (frei/free/hors)
- **Technical instructions (air):**
- **Class Share in %**
- **NK** < 2,5
- **Water pollution class:**  
 Water pollution class WGK 1 (self classification, D): slightly hazardous to water

**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.

- **Relevant R-phrases**  
 36 Irritating to eyes.  
 36/38 Irritating to eyes and skin.
- **Department issuing MSDS:** Laboratory, KK /ke
- **\* Data compared to the previous version altered.**