



# SAFETY DATA SHEET



according to (EC) No. 1907/2006

■ BASF Group

| <b>Date/revised on:</b> 15.11.2010<br><b>Version:</b> 2<br><b>Trade name:</b> Wolmanit® CX-8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                              | page 1/4 |                                      |                                              |                                            |                         |                                      |                                                                                                 |                                         |                                                                                                                              |                      |                                                 |            |                            |       |       |               |            |            |     |   |         |          |                |       |   |               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|----------|--------------------------------------|----------------------------------------------|--------------------------------------------|-------------------------|--------------------------------------|-------------------------------------------------------------------------------------------------|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------------------------------------------|------------|----------------------------|-------|-------|---------------|------------|------------|-----|---|---------|----------|----------------|-------|---|---------------|
| <b>1 Identification of the substance / preparation and of the company / undertaking</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                              |          |                                      |                                              |                                            |                         |                                      |                                                                                                 |                                         |                                                                                                                              |                      |                                                 |            |                            |       |       |               |            |            |     |   |         |          |                |       |   |               |
| <b>Trade name:</b> Wolmanit® CX-8<br><br><b>Use:</b> Wood preservative<br><br><b>Manufacturer/Supplier:</b> Dr. Wolman GmbH, P.O. Box 1160, 76545 Sinzheim, Germany<br>Tel. +49 7221 800-0, Fax +49 7221 800-210<br>e-mail: product-safety-wolman@wolman.de<br><br><b>Emergency information:</b> Product safety department Tel. +49 (0) 7221 800-0 / -234                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                              |          |                                      |                                              |                                            |                         |                                      |                                                                                                 |                                         |                                                                                                                              |                      |                                                 |            |                            |       |       |               |            |            |     |   |         |          |                |       |   |               |
| <b>2 Hazards identification</b> *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                              |          |                                      |                                              |                                            |                         |                                      |                                                                                                 |                                         |                                                                                                                              |                      |                                                 |            |                            |       |       |               |            |            |     |   |         |          |                |       |   |               |
| <b>Principal hazard:</b><br><div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <br/>                     C - Corrosive                 </div> <div style="text-align: center;"> <br/>                     N - Dangerous for the environment                 </div> </div><br><b>Critical hazard to man and environment:</b><br><table border="0"> <tr> <td>R 22</td> <td>Harmful if swallowed</td> </tr> <tr> <td>R 34</td> <td>Causes burns</td> </tr> <tr> <td>R 50/53</td> <td>Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment</td> </tr> </table> |                                                                                                                              |          | R 22                                 | Harmful if swallowed                         | R 34                                       | Causes burns            | R 50/53                              | Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment |                                         |                                                                                                                              |                      |                                                 |            |                            |       |       |               |            |            |     |   |         |          |                |       |   |               |
| R 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Harmful if swallowed                                                                                                         |          |                                      |                                              |                                            |                         |                                      |                                                                                                 |                                         |                                                                                                                              |                      |                                                 |            |                            |       |       |               |            |            |     |   |         |          |                |       |   |               |
| R 34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Causes burns                                                                                                                 |          |                                      |                                              |                                            |                         |                                      |                                                                                                 |                                         |                                                                                                                              |                      |                                                 |            |                            |       |       |               |            |            |     |   |         |          |                |       |   |               |
| R 50/53                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment                              |          |                                      |                                              |                                            |                         |                                      |                                                                                                 |                                         |                                                                                                                              |                      |                                                 |            |                            |       |       |               |            |            |     |   |         |          |                |       |   |               |
| <b>3 Composition / information on ingredients</b> *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                              |          |                                      |                                              |                                            |                         |                                      |                                                                                                 |                                         |                                                                                                                              |                      |                                                 |            |                            |       |       |               |            |            |     |   |         |          |                |       |   |               |
| <b>Chemical nature:</b> Liquid wood preservative salt based on copper and boron compounds<br><br><b>Contains:</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>CAS-number</th> <th>Name</th> <th>%</th> <th>Classification</th> <th>R-phrases</th> </tr> </thead> <tbody> <tr> <td>312600-89-8</td> <td>Bis-(N-cyclohexyldiazeniumdioxo)-copper</td> <td>2.8</td> <td>Xn, N</td> <td>22 – 41 – 50/53</td> </tr> <tr> <td>12069-69-1</td> <td>Copper hydroxide carbonate</td> <td>13.04</td> <td>Xn, N</td> <td>20/22 – 50/53</td> </tr> <tr> <td>10043-35-3</td> <td>Boric acid</td> <td>4.0</td> <td>T</td> <td>60 - 61</td> </tr> <tr> <td>141-43-5</td> <td>2-Aminoethanol</td> <td>20-40</td> <td>C</td> <td>20/21/22 - 34</td> </tr> </tbody> </table>                                      |                                                                                                                              |          | CAS-number                           | Name                                         | %                                          | Classification          | R-phrases                            | 312600-89-8                                                                                     | Bis-(N-cyclohexyldiazeniumdioxo)-copper | 2.8                                                                                                                          | Xn, N                | 22 – 41 – 50/53                                 | 12069-69-1 | Copper hydroxide carbonate | 13.04 | Xn, N | 20/22 – 50/53 | 10043-35-3 | Boric acid | 4.0 | T | 60 - 61 | 141-43-5 | 2-Aminoethanol | 20-40 | C | 20/21/22 - 34 |
| CAS-number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Name                                                                                                                         | %        | Classification                       | R-phrases                                    |                                            |                         |                                      |                                                                                                 |                                         |                                                                                                                              |                      |                                                 |            |                            |       |       |               |            |            |     |   |         |          |                |       |   |               |
| 312600-89-8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Bis-(N-cyclohexyldiazeniumdioxo)-copper                                                                                      | 2.8      | Xn, N                                | 22 – 41 – 50/53                              |                                            |                         |                                      |                                                                                                 |                                         |                                                                                                                              |                      |                                                 |            |                            |       |       |               |            |            |     |   |         |          |                |       |   |               |
| 12069-69-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Copper hydroxide carbonate                                                                                                   | 13.04    | Xn, N                                | 20/22 – 50/53                                |                                            |                         |                                      |                                                                                                 |                                         |                                                                                                                              |                      |                                                 |            |                            |       |       |               |            |            |     |   |         |          |                |       |   |               |
| 10043-35-3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Boric acid                                                                                                                   | 4.0      | T                                    | 60 - 61                                      |                                            |                         |                                      |                                                                                                 |                                         |                                                                                                                              |                      |                                                 |            |                            |       |       |               |            |            |     |   |         |          |                |       |   |               |
| 141-43-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2-Aminoethanol                                                                                                               | 20-40    | C                                    | 20/21/22 - 34                                |                                            |                         |                                      |                                                                                                 |                                         |                                                                                                                              |                      |                                                 |            |                            |       |       |               |            |            |     |   |         |          |                |       |   |               |
| <b>4 First-aid measures</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                              |          |                                      |                                              |                                            |                         |                                      |                                                                                                 |                                         |                                                                                                                              |                      |                                                 |            |                            |       |       |               |            |            |     |   |         |          |                |       |   |               |
| <table border="0"> <tr> <td><b>General advice:</b></td> <td>Remove contaminated clothing immediately</td> </tr> <tr> <td><b>if inhaled:</b></td> <td>Rest, fresh air</td> </tr> <tr> <td><b>on skin contact:</b></td> <td>Immediately wash thoroughly with plenty of water</td> </tr> <tr> <td><b>on contact with eyes:</b></td> <td>Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist</td> </tr> <tr> <td><b>on ingestion:</b></td> <td>Rinse mouth immediately, seek medical attention</td> </tr> </table>                                                                                                                                                                                                                                                 |                                                                                                                              |          | <b>General advice:</b>               | Remove contaminated clothing immediately     | <b>if inhaled:</b>                         | Rest, fresh air         | <b>on skin contact:</b>              | Immediately wash thoroughly with plenty of water                                                | <b>on contact with eyes:</b>            | Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist | <b>on ingestion:</b> | Rinse mouth immediately, seek medical attention |            |                            |       |       |               |            |            |     |   |         |          |                |       |   |               |
| <b>General advice:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Remove contaminated clothing immediately                                                                                     |          |                                      |                                              |                                            |                         |                                      |                                                                                                 |                                         |                                                                                                                              |                      |                                                 |            |                            |       |       |               |            |            |     |   |         |          |                |       |   |               |
| <b>if inhaled:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Rest, fresh air                                                                                                              |          |                                      |                                              |                                            |                         |                                      |                                                                                                 |                                         |                                                                                                                              |                      |                                                 |            |                            |       |       |               |            |            |     |   |         |          |                |       |   |               |
| <b>on skin contact:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Immediately wash thoroughly with plenty of water                                                                             |          |                                      |                                              |                                            |                         |                                      |                                                                                                 |                                         |                                                                                                                              |                      |                                                 |            |                            |       |       |               |            |            |     |   |         |          |                |       |   |               |
| <b>on contact with eyes:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist |          |                                      |                                              |                                            |                         |                                      |                                                                                                 |                                         |                                                                                                                              |                      |                                                 |            |                            |       |       |               |            |            |     |   |         |          |                |       |   |               |
| <b>on ingestion:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Rinse mouth immediately, seek medical attention                                                                              |          |                                      |                                              |                                            |                         |                                      |                                                                                                 |                                         |                                                                                                                              |                      |                                                 |            |                            |       |       |               |            |            |     |   |         |          |                |       |   |               |
| <b>5 Fire-fighting measures</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                              |          |                                      |                                              |                                            |                         |                                      |                                                                                                 |                                         |                                                                                                                              |                      |                                                 |            |                            |       |       |               |            |            |     |   |         |          |                |       |   |               |
| <table border="0"> <tr> <td><b>Suitable extinguishing media:</b></td> <td>Water, foam, powder, dry extinguishing media</td> </tr> <tr> <td><b>Extinguishing media not to be used:</b></td> <td>No special requirements</td> </tr> <tr> <td><b>Special protective equipment:</b></td> <td>No special measures necessary</td> </tr> </table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                              |          | <b>Suitable extinguishing media:</b> | Water, foam, powder, dry extinguishing media | <b>Extinguishing media not to be used:</b> | No special requirements | <b>Special protective equipment:</b> | No special measures necessary                                                                   |                                         |                                                                                                                              |                      |                                                 |            |                            |       |       |               |            |            |     |   |         |          |                |       |   |               |
| <b>Suitable extinguishing media:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Water, foam, powder, dry extinguishing media                                                                                 |          |                                      |                                              |                                            |                         |                                      |                                                                                                 |                                         |                                                                                                                              |                      |                                                 |            |                            |       |       |               |            |            |     |   |         |          |                |       |   |               |
| <b>Extinguishing media not to be used:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | No special requirements                                                                                                      |          |                                      |                                              |                                            |                         |                                      |                                                                                                 |                                         |                                                                                                                              |                      |                                                 |            |                            |       |       |               |            |            |     |   |         |          |                |       |   |               |
| <b>Special protective equipment:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | No special measures necessary                                                                                                |          |                                      |                                              |                                            |                         |                                      |                                                                                                 |                                         |                                                                                                                              |                      |                                                 |            |                            |       |       |               |            |            |     |   |         |          |                |       |   |               |

## 6 Accidental release measures

|                                   |                                                                                                                    |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------|
| <b>Personal precautions:</b>      | Ensure adequate ventilation                                                                                        |
| <b>Environmental precautions:</b> | Do not discharge into drains or into the soil                                                                      |
| <b>Methods for cleaning up:</b>   | Soak up with absorbent material. Prevent larger amount from spreading and pump into suitable container if possible |

## 7 Handling and storage

**Handling:**  
Wear personal protective equipment.  
The precautions generally taken with chemicals are to be observed when handling and applying the product.  
Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke.

**Storage:**  
Storage in original container tightly closed. Keep out of reach of children.  
Protect from acids and acid forming substances. Ensure thorough ventilation of storage and work areas.

## 8 Exposure controls / personal protection

\*

**Additional information on the lay-out of technical plant:** see 7

### Exposure limit values:

2-Aminoethanol: TWA: 3 ppm (ACGIH TLV)  
STEEL: 6 ppm (ACGIH TLV)

### Personal protective equipment:

**Respiratory protection:** Breathing protection if ventilations is inadequate.

**Hand protection:** Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chlorophene rubber (0.5 mm), polyvinylchloride (0.7 mm) and other.

**Eye protection:** Tightly fitting safety goggles (EN 166)

**Body protection:** Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to DIN-EN 465).

### General safety and hygiene measures:

Observe the precautions generally taken with chemicals

## 9 Physical and chemical properties

|                                       |                                                  |
|---------------------------------------|--------------------------------------------------|
| <b>Form:</b>                          | liquid                                           |
| <b>Colour:</b>                        | blue                                             |
| <b>Odour:</b>                         | weak                                             |
| <b>Solidification temperature:</b>    | approx. 0 °C                                     |
| <b>Boiling point / boiling range:</b> | > 100 °C                                         |
| <b>Flash point:</b>                   | not applicable                                   |
| <b>Ignition temperature:</b>          | >400 °C                                          |
| <b>Explosion limits:</b>              | no explosion hazard                              |
| <b>Density:</b>                       | approx. 1.2 g/cm³ at 20 °C                       |
| <b>pH-value:</b>                      | approx. 9.6 at 20 g/l H <sub>2</sub> O and 25 °C |
| <b>Solubility in water:</b>           | miscible with water in each ratio                |
| <b>Viscosity:</b>                     | approx. 100 mPa s (20 °C)                        |

## 10 Stability and reactivity

|                                          |                                                                                                                    |
|------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| <b>Conditions to be avoided:</b>         | Thermal decomposition > 250 °C                                                                                     |
| <b>Substances to be avoided:</b>         | Do not mix with other wood preservatives                                                                           |
| <b>Hazardous decomposition products:</b> | Soak up with absorbent material. Prevent larger amount from spreading and pump into suitable container if possible |

## 11 Toxicological information

|                                |                   |
|--------------------------------|-------------------|
| LD <sub>50</sub> oral (rat):   | approx. 500 mg/kg |
| LD <sub>50</sub> dermal (rat): | > 2000 mg/kg      |

|                           |           |
|---------------------------|-----------|
| Skin irritation (rabbit): | corrosive |
| Eye irritation (rabbit):  | corrosive |

### Additional information:

Manufacturer of boric acid / borates point out that animal ingestion studies in several species, at high doses, indicate that boric acid / borates cause reproductive and developmental effects. A human study of occupational exposure to boric acid / borate dust showed no adverse effect on reproduction.

## 12 Ecological information

### Ecotoxicity

|                                          |                                         |
|------------------------------------------|-----------------------------------------|
| - Toxicity to fish:                      | LC <sub>50</sub> (96 h): approx. 1 mg/l |
| - Aquatic invertebrates (Daphnia magna): | NOEC (48 h): < 1 mg/l                   |
| - Aquatic plants:                        | EC <sub>50</sub> (72 h): < 1 mg/l       |

### Elimination information:

The copper based active ingredients can be virtually eliminated from water.  
Boric acid decomposes in the environment to natural borate.

### General advice:

Observe the legal provisions regarding the prevention of pollution of ground and surface water as well as air and soil. Do not discharge product into natural waters without pre-treatment.

## 13 Disposal considerations

|                                |                                                                                                   |
|--------------------------------|---------------------------------------------------------------------------------------------------|
| <b>Product:</b>                |                                                                                                   |
| <b>Recommendations:</b>        | Dispose of by special means in accordance with local regulations e.g. suitable incineration       |
| <b>Contaminated packaging:</b> |                                                                                                   |
| <b>Recommendations:</b>        | After employing and appropriate cleaning containers can be recycled or given back to the producer |

## 14 Transport information

### Land transport ADR/RID and GGVS/GGVE (international/national):

Class: 8  
UN-number: 1760  
Description of the good: CORROSIVE LIQUID, N.O.S. (ALKYLAMINE)  
Packaging group: II

### Sea transport IMDG/GGVSee:

Class: 8  
UN-number: 1760  
Proper shipping name: CORROSIVE LIQUID, N.O.S. (ALKYLAMINE)  
Packaging group: II  
Marine pollutant: yes  
EMS-number: F-A, S-B  
MFAG: 760

### Air transport ICAO-TI and IATA-DGR:

Class: 8  
UN-number: 1760  
Proper shipping name: CORROSIVE LIQUID, N.O.S. (ALKYLAMINE)  
Packaging group: II

## 15 Regulatory information

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### Labelling according to EC Directives:

C - Corrosive  
N - Dangerous for the environment

R 22 Harmful if swallowed  
R 34 Causes burns  
R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

S 2 Keep out of reach of children  
S 13 Keep away from food, drink and animal feeding stuffs  
S 20/21 When using do not eat, drink or smoke  
S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice  
S 28 After contact with skin wash immediately with plenty of water  
S 45 In case of accident or if you feel unwell seek medical advice immediately (show the label where possible)

National legislation / regulations: —

## 16 Other information

\*

Full text of R-phrases mentioned in chapter 3:

R 22 Harmful if swallowed  
R 20/21/22 Harmful by inhalation, in contact with skin and if swallowed  
R 20/22 Harmful by inhalation and if swallowed  
R 34 Causes burns  
R 41 Risk of serious damage to eyes  
R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment  
R 60 May impair fertility  
R 61 May cause harm to the unborn child

\* Data compared to the previous version altered

All information is given in conjunction with the Technical Leaflet. The information contained herein is based on the present state of our knowledge and does not therefore guarantee certain properties. Recipients of our product must take responsibility for observing existing laws and regulations.