SAFETY DATA SHEET

according to (EC) No. 1907/2006

1 Identification of the substance / preparation and of the company / undertaking

Trade name: **Wolmanit® CX-10**

Use: Wood preservative

Manufacturer/Supplier: Dr. Wolman GmbH, P.O. Box 1160, 76545 Sinzheim, Germany
Tel. +49 7221 800-0, Fax +49 7221 800-210
e-mail: product-safety-wolman@wolman.de

Emergency information: Product safety department Tel. +49 (0) 7221 800-0 / -234

2 Hazards identification

Principal hazard:





C - Corrosive N - Dangerous for the environment

Critical hazard to man and 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

3 Composition / information on ingredients

Chemical nature: Liquid wood preservative salt based on copper and boron compounds

Contains:

CAS-number	Name	%	Classification	R-phrases
312600-89-8	Bis-(N-cyclohexyldiazeniumdioxy)-copper	3.5	Xn, N	22 – 41 – 50/53
12069-69-1	Copper hydroxide carbonate	16.3	Xn, N	20/22 – 50/53
10043-35-3	Boric acid	5.0	T	60 - 61
141-43-5	2-Aminoethanol	25-45	C	20/21/22 - 34

4 First-aid measures

General advice: Remove contaminated clothing immediately

if inhaled: Rest. Fresh air

on skin contact: Immediately wash thoroughly with plenty of water

on contact with eyes: Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist

on ingestion: Rinse mouth immediately, seek medical attention

5 Fire-fighting measures

Suitable extinguishing media: Water, foam, powder, dry extinguishing media

Extinguishing media not to be used: No special recommendments

Special protective equipment: No special measures necessary

6 Accidental release measures

Personal precautions: Ensure adequate ventilation

Environmental precautions: Do not discharge into drains or into the soil

Methods for cleaning up: 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)
STEL: 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

Form:	liquid
Colour:	blue
Odour:	weak
Solidification temperature:	approx. 0 °C
Boiling point / boiling range:	> 100 °C
Flash point:	not applicable
Ignition temperature:	not applicable
Danger of explosion :	none
Density:	1.27 g/cm³ at 20 °C
pH-value:	approx. 9.6 at 20 g/l H_2O and 20 °C
Solubility in water:	miscible with water in each ratio
Viscosity:	38 sec (approx.) at 22 °C ISO 1431 (nozzle 4 mm)

10 Stability and reactivity

Conditions to be avoided: Thermal decomposition > 250 °C

Substances to be avoided: Do not mix with other wood preservative

Hazardous decomposition products: No decomposition if correctly stored and handled

11 Toxicological information

LD_{50} oral (rat): approx. 500 mg/kg
LD_{50} dermal (rat): > 2000 mg/kg

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

Sensitisation: not sensitising

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_{50} (96 h): < 1 mg/l
- Aquatic invertebrates (Daphnia magna): NOEC (48 h): < 1 mg/l
- Aquatic plants: EC_{50} (72 h): < 1 mg/l
- Microorganisms/Effect on activated sludge: EC_{50} (17 h): approx. 50 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

Product:
Recommendations: Dispose of by special means in accordance with local regulations e.g. suitable incineration

Contaminated packaging:
Recommendations: 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, COPPER CARBONATE)
Packaging group:	II

Sea transport IMDG/GGVSee:

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

15 Regulatory information

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.