

# Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 09.01.2008

Revision: 09.01.2008

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

- **Product details**
- **Trade name: Cobox (50% Cu) WP**
- **Application of the substance / the preparation** Plant protection product, initial product
- **Manufacturer/Supplier:**  
Spiess-Urania Chemicals GmbH  
Heidenkampsweg 77  
20097 Hamburg  
GERMANY  
Tel.: +49(0)40-23652-0  
FAX: +49(0)40-23652-255  
Internet: <http://www.spiess-urania.com>  
E-Mail: [mail@spiess-urania.com](mailto:mail@spiess-urania.com)
- **Further information obtainable from:**  
BUSINESS DEVELOPMENT  
E-Mail: [p.himmelreich@spiess-urania.com](mailto:p.himmelreich@spiess-urania.com)
- **Information in case of emergency:**  
From 8:00 a.m. to 4:00 p.m., Tel.: +49(0)40-23652-0  
After 4:00 p.m., Tel.: +49(0)40-78833366

## 2 Hazards identification

- **Hazard description:**



Xn Harmful  
N Dangerous for the environment

- **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version and is extended by company and literature data.

R 20/22 Harmful by inhalation and if swallowed.

R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

- **GHS label elements**



**Warning**

4.1/1 - Very toxic to aquatic life with long lasting effects.



**Warning**

3.1/4 - Harmful if swallowed.

3.1/4 - Harmful if inhaled.

- **Prevention:**

Avoid breathing dust/fume/gas/mist/vapours/spray.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

Avoid release to the environment.

- **Response:**

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

(Contd. on page 2)

## Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 09.01.2008

Revision: 09.01.2008

Trade name: Cobox (50% Cu) WP

(Contd. of page 1)

IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

Call a POISON CENTER or doctor/physician if you feel unwell.

Rinse mouth.

Collect spillage.

• **Disposal:**

Dispose of contents/container in accordance with local/regional/national/international regulations.

### 3 Composition/information on ingredients

• **Chemical characterization**

• **Description:**

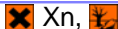
Pesticide-formulation : solid

Fungicide


Mixture of substances listed below with nonhazardous additions.

• **Dangerous components:**

dicopper chloride trihydroxide

 Xn, N; R 20/22-50/53

85.4%

Danger:  3.1.O/3, 3.1.I/4

Warning:  4.1.C/1

### 4 First-aid measures

• **General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

• **After inhalation:**

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

• **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

• **After eye contact:** Rinse opened eye for several minutes under running water.

• **After swallowing:** Call a doctor immediately.

• **Information for doctor:** Show the label of original-bag.

• **Treatment** Treat symptomatically.

### 5 Fire-fighting measures

• **Suitable extinguishing agents:**

Use fire extinguishing methods suitable to surrounding conditions.

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

• **For safety reasons unsuitable extinguishing agents:** Water with full jet

• **Special hazards caused by the substance, its products of combustion or resulting gases:**

Formation of toxic gases is possible during heating or in case of fire.

Hydrogen chloride (HCl)

• **Protective equipment:** Wear self-contained respiratory protective device.

• **Additional information**

Collect contaminated fire fighting water separately. It must not enter the sewage system.

### 6 Accidental release measures

• **Person-related safety precautions:**

Avoid formation of dust.

(Contd. on page 3)

## Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 09.01.2008

Revision: 09.01.2008

Trade name: Cobox (50% Cu) WP

(Contd. of page 2)

- Ensure adequate ventilation
- **Measures for environmental protection:**  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.  
Keep contaminated extinguish water and dispose of appropriately.
- **Measures for cleaning/collecting:**  
Pick up mechanically.  
Dispose of the material collected according to regulations.  
Dispose contaminated material as waste according to item 13.

### 7 Handling and storage

- **Handling:**
- **Information for safe handling:**  
Prevent formation of dust.  
Provide suction extractors if dust is formed.
- **Information about fire - and explosion protection:** No special measures required.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Prevent any seepage into the ground.
- **Information about storage in one common storage facility:**  
Store away from foodstuffs.  
Store in concept of VCI ( Germany )
- **Further information about storage conditions:** Store in cool, dry conditions.
- **Recommended storage temperature:** 0 °C - 30 °C
- **Storage class:** 13 ( VCI )
- **Specific applications**  
Plant protection product, initial product  
Fungicide

### 8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **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.
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Do not eat, drink, smoke or sniff while working.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes.
- **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.

- **Recommended filter device for short term use:** Filter P2

(Contd. on page 4)

GB

## Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 09.01.2008

Revision: 09.01.2008

Trade name: Cobox (50% Cu) WP

(Contd. of page 3)

- **Protection of hands:**



Protective gloves

- **Material of gloves** PVC gloves

- **Penetration time of glove material**

Value of permeation : Level 6, &gt; 480 min ; EN 374

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:** Goggles in case of dust.

- **Body protection:** Protective work clothing

- **Limitation and supervision of exposure into the environment**

Please consider the instructions on the label depending on handling and application of this product please. Use the personal preventive measures specified above in all other cases.

### 9 Physical and chemical properties

- **General Information**

<b>Form:</b>	Powder
<b>Colour:</b>	Light green
<b>Odour:</b>	Light

- **Change in condition**

**Melting point/Melting range:** Undetermined.

- **Flash point:**

Not applicable.

- **Self-igniting:**

Product is not selfigniting.

- **Danger of explosion:**

Product does not present an explosion hazard.

- **Vapour pressure at 20°C:**

1 hPa

- **Density at 20°C:**

0.72 g/cm<sup>3</sup>

- **Solubility in / Miscibility with water:**

Dispersible.

- **pH-value at 20°C:**

7.9

### 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

- **Dangerous reactions** No dangerous reactions known.

- **Dangerous decomposition products:**

In thermal decomposition :

Hydrogen chloride (HCl)

GB

(Contd. on page 5)

# Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 09.01.2008

Revision: 09.01.2008

Trade name: Cobox (50% Cu) WP

(Contd. of page 4)

## 11 Toxicological information

- **Acute toxicity:**

- **LD/LC50 values relevant for classification:**

**dicopper chloride trihydroxide**

Oral	LD50	700-800 mg/kg (rat)
Dermal	LD50	> 2000 mg/kg (rat)
Inhalative	LC50	2.44 mg/l (rat)

- **Primary irritant effect:**

- **on the skin:** No irritant effect.

- **on the eye:** No irritating effect.

- **Sensitization:** No sensitizing effects known.

- **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Harmful

## 12 Ecological information

- **Information about elimination (persistence and degradability):**

- **Other information:** The product is difficultly biodegradable.

- **Ecotoxicological effects:**

- **Acquatic toxicity:**

**dicopper chloride trihydroxide**

EC50(48h)	0.5 mg/l (daphnia magna)
EC50(72h)	96 mg/l (algae)
LC50(96h)	> 43.8 mg/l (rainbow trout)

- **General notes:**

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water  
Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

Very toxic for aquatic organisms

## 13 Disposal considerations

- **Product:**

- **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Must be specially treated adhering to official regulations.

- **European waste catalogue**

02 01 08 agrochemical waste containing dangerous substances

- **Uncleaned packaging:**

- **Recommendation:** Disposal must be made according to official regulations.

- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

GB

(Contd. on page 6)

# Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 09.01.2008

Revision: 09.01.2008

Trade name: Cobox (50% Cu) WP

(Contd. of page 5)

## 14 Transport information

### · Land transport ADR/RID (cross-border)



- **ADR/RID class:** 9 (M7) Miscellaneous dangerous substances and articles.
- **Danger code (Kemler):** 90
- **UN-Number:** 3077
- **Packaging group:** III
- **Hazard label** 9
- **Description of goods:** 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dicopper chloride trihydroxide)
- **Limited quantities (LQ)** LQ27
- **Transport category** 3
- **Tunnel restriction code** E

### · Maritime transport IMDG:



- **IMDG Class:** 9
- **UN Number:** 3077
- **Label** 9
- **Packaging group:** III
- **EMS Number:** F-A,S-F
- **Marine pollutant:** -
- **Proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Copperoxychloride / 58% Cu)

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



- **ICAO/IATA Class:** 9
- **UN/ID Number:** 3077
- **Label** 9
- **Packaging group:** III
- **Proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Copperoxychloride / 58% Cu)

- **UN "Model Regulation":** UN3077; ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.; 9; III
- **Environmental hazards:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID

## 15 Regulatory information

### · Labelling according to EU guidelines:

Observe the general safety regulations when handling chemicals.  
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

(Contd. on page 7)

GB

## Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 09.01.2008

Revision: 09.01.2008

Trade name: Cobox (50% Cu) WP

(Contd. of page 6)

- **Code letter and hazard designation of product:**  
Xn Harmful  
N Dangerous for the environment
- **Risk phrases:**  
20/22 Harmful by inhalation and if swallowed.  
50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- **Safety phrases:**  
22 Do not breathe dust.  
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
36/37/39 Wear suitable protective clothing, gloves and eye/face protection.  
45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).  
57 Use appropriate container to avoid environmental contamination.
- **National regulations:**
- **Breakdown regulations:**  
Critical quantity values according to the regulations on accidents should be adhered to.  
See appendix 1, column 1, no. 9a.
- **Waterhazard class:** Water hazard class 3 (Self-assessment): extremely hazardous for 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**  
Wording of R-phrases under section 3  
20/22 Harmful by inhalation and if swallowed.  
50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- **Training hints** Use the data in this MSDS.
- **Department issuing MSDS:** BUSINESS DEVELOPMENT
- **Contact:**  
P.Himmelreich, Phone: +49(0)6359-801-344  
E-Mail: p.himmelreich@spiess-urania.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)  
RID: Règlement internationale concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)  
ICAO: International Civil Aviation Organization  
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent
- **\* Data compared to the previous version altered.**  
With the appearance of this MSDS all preceding versions for this product/this material become invalid. Changes in the respective chapters in relation to the preceding version are marked at the left side edge by \*.