



**SAFETY DATA SHEET**  
according to Regulation (EC) No. 1907/2006

**Cuproxat**  
Version 21 (Georgia)

Issuing date: 2012/09/17

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

Trade name : **Cuproxat**

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use : Plant Protection Product

### 1.3. Details of the supplier of the safety data sheet

Nufarm GmbH & Co KG  
St.-Peter-Str. 25  
A-4021 Linz  
Austria  
Telephone: +43/732/6918-4010  
Telefax: +43/732/6918-64010  
E-mail address: Johann.Mayr@at.nufarm.com

### 1.4. Emergency telephone number

+43/732/6914-2466 (Linz/Austria production site)

## 2. HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

EEC/99/45 : N R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### 2.2. Label elements

according directive 1999/45/EG

Pictogram:



N



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- R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- S 2 - Keep out of the reach of children.  
S13 - Keep away from food, drink and animal feedingstuffs.  
S20/21 - When using do not eat, drink or smoke.  
S35 - This material and its container must be disposed of in a safe way.  
S57 - Use appropriate container to avoid environmental contamination.

### 2.3. Other hazards

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical nature** : Mixture of active ingredient and additives  
Tribasic copper sulfate 345g/L

### 3.2. Mixtures

#### Components:

#### tribasic copper sulfate

CAS-No.: 12527-76-3  
EINECS-No. / ELINCS No.:  
REACH No.:  
Concentration: 26,9 % (w/w)

#### Classification:

|              |                 |   |
|--------------|-----------------|---|
| EG_1272/08 : | AcuteTox.4      | H302 - Harmful if swallowed.  |
|              | AquaticAcute1   | H400 - Very toxic to aquatic life.  |
|              | AquaticChronic1 | H410 - Very toxic to aquatic life with long lasting effects.  |
| EEC/67/548 : | Xn              | R22 - Harmful if swallowed.   |
|              | N               | R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |

## 4. FIRST AID MEASURES

### 4.1. Description of first aid measures

- Eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, consult a specialist.
- Skin contact : Wash off with soap and plenty of water.



Inhalation : Move to fresh air.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms : stomach pains, Vomiting, symptoms attributed to the CNS and kidneys, hemolytic crisis accompanied by damage in the liver and brain

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

Treatment : No specific antidote, symptomatic treatment. Decontamination: 1 spoon of a 1 % solution of potassiumhexacyanoferrat.

### 5. FIRE-FIGHTING MEASURES

#### 5.1. Extinguishing media

Suitable extinguishing media : Water spray, Dry powder, Sand, Foam, Carbon dioxide (CO<sub>2</sub>)

Extinguishing media which shall not be used for safety reasons : High volume water jet

#### 5.2. Special hazards arising from the substance or mixture

Specific hazards during fire fighting : none

#### 5.3. Advice for firefighters

Special protective equipment for fire-fighters : Use personal protective equipment. Wear self contained breathing apparatus for fire fighting if necessary.

Further Information : Standard procedure for chemical fires. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

### 6. ACCIDENTAL RELEASE MEASURES

#### 6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. (see Chapter 8)

#### 6.2. Environmental precautions



Do not flush into surface water or sanitary sewer system.

### 6.3. Methods and materials for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder). Use mechanical handling equipment.

Additional advice : Never return spills in original containers for re-use.

### 6.4. Reference to other sections

see Chapter 13

## 7. HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Safe handling advice : Wear personal protective equipment. Keep out of the reach of children.

### 7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store at room temperature in the original container.

Advice on common storage : Keep away from food, drink and animal feeding stuffs.

German storage class : 12 (Non Combustible Liquids)

#### Storage stability

Storage temperature : > 0 °C

### 7.3. Specific end uses

none

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

Components with workplace control parameters  
no data available

### 8.2. Exposure controls



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**Personal protective equipment**

- Respiratory protection : No special protective equipment required.
- Hand protection : Protective gloves
- Eye protection : Safety glasses
- Skin and body protection : Long sleeved clothing
- Hygiene measures : Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and at the end of workday. When using, do not eat, drink or smoke.
- Protective measures : Keep working clothes separately.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**9.1. Information on basic physical and chemical properties**

**Appearance**

- Physical state : liquid
- Form : suspension
- Colour : greenish-blue
- Odour : none

Melting point/range : not applicable

Boiling point/boiling range : ca.100 °C  
at 1.013 hPa

Flash point : does not flash

Ignition temperature : not applicable

Explosivity : Not explosive

Upper explosion limit : no data available

Lower explosion limit : no data available

Vapour pressure : Active ingredient is an inorganic salt. Vapour pressure is negligibly low.

Density : 1,26 g/cm<sup>3</sup>



Water solubility : practically insoluble, dispersible

pH : 7,1

Partition coefficient: n-octanol/water : no data available

Dissociation constant : no data available

Viscosity, dynamic : no data available

## 9.2. Other information

none

## 10. STABILITY AND REACTIVITY

### 10.1. Reactivity

no data available

### 10.2. Chemical stability

Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

No hazards to be specially mentioned.

### 10.4. Conditions to avoid

none

### 10.5. Incompatible materials to avoid

none

### 10.6. Hazardous decomposition products

No decomposition if stored normally.



## 11. TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

- Acute oral toxicity : LD50 rat  
Dose: > 2.000 mg/kg
- Acute dermal toxicity : LD50 rat  
Dose: > 2.000 mg/kg
- Acute inhalation toxicity : Remarks: Not relevant
- Skin irritation : rabbit  
Result: No skin irritation
- Eye irritation : rabbit  
Result: No eye irritation
- Sensitisation : Guinea-pig  
Result: Did not cause sensitization.

## 12. ECOLOGICAL INFORMATION

### 12.1. Toxicity

- Toxicity to fish : LC50 *Oncorhynchus mykiss* (rainbow trout)  
Dose: 13,18 mg/l  
Testing period: 96 h  
Test substance: (Tribasic Copper Sulfate)
- Toxicity to daphnia : static test EC50 *Daphnia magna* (Water flea)  
Dose: 0,0167 mg/l  
Testing period: 21 d  
Test substance: (copper(II)hydroxide)
- Toxicity to algae : EC50 *Pseudokirchneriella subcapitata*  
Dose: > 12,3 mg/l  
Exposure time: 72 h  
Test substance: (Tribasic Copper Sulfate)



Toxicity to bacteria : IC50  
Dose: > 100 mg/l

### 12.2. Persistence and degradability

Biodegradability : no data available

### 12.3. Potential bioaccumulation

Bioaccumulation : no data available

### 12.4. Mobility in soil

The degree of mobility of copper in the environment depends upon the pH of ambient soils and waters  
The lower the pH, the more soluble copper salts are and, hence, the more mobile.

### 12.5. Results of PBT and vPvB assessment

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

### 12.6. Other adverse effects

According to our experience, doesn't cause any disturbance in waste water clarifying plant if used appropriately.  
Ecological injuries are not known or expected under normal use.

## 13. DISPOSAL CONSIDERATIONS

According to European Directive 2000/532/EC as amended :  
Waste Code : 02 01 08 (agrochemical waste containing dangerous substances)

### 13.1. Waste treatment methods

Product : In accordance with local and national regulations.

Contaminated packaging : Do not re-use empty containers.

Dispose empty and triple rinsed container within a local disposing system according to EC directive 94/62/EC





## 14. TRANSPORT INFORMATION

### 14.1. UN number

UN3082

### 14.2. Proper shipping name

UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.\*(copper(II)-ions)

### 14.3. Transport hazard class(es)

ADR/RID :  
Class : 9

IMDG :  
Class : 9

IATA-DGR :  
Class : 9

### 14.4. Packaging group

ADR/RID : III

IMDG : III

IATA-DGR : III

### 14.5. Environmental hazards

**IMDG**  
Marine pollutant : MP

### 14.6. Special precautions for user

none

## 15. REGULATORY INFORMATION



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### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Other regulations : The product is classified and labelled in accordance with EC directives or respective national laws.

### 15.2. Chemical Safety Assessment

none

### 16. OTHER INFORMATION

Print Date : 2014/02/13

The date format YYYY/MM/DD is used according to ISO 8601.  
(Alterations are indicated in the left hand margin by: || )

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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