



Cerexagri S.A.S - Groupe UPL

# Safety Data Sheet

This safety data sheet was created pursuant to the requirements of:  
Regulation (EC) No. 1907/2006

## MARAK BORDEAUX ULTRA

Preparation Date 04-Jun-2012

Revision date 19-Mar-2020

Revision Number: 3

### Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Identification of the product

**Product code** FAP59

**Product Description** Copper (from Tribasic Copper sulfate) 400 g/kg WG

**Synonyms** -

**Pure substance/preparation** Preparation

#### 1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

**Recommended use** Fungicides  
This product is for experimental uses only. The product has not been completely analyzed and all of the hazards may not be known. Please use caution while handling this product

**Sector(s) of use** SU1 - Agriculture, forestry, fishery

**Product category** PC27 - Plant protection products

#### 1.3 Details of the Supplier of the Safety Data Sheet

**Supplier** UPL  
Operating as Cerexagri s.a.s  
Bat. Galilée 3  
Parc Saint Christophe  
10 avenue de l'Entreprise  
95863 CERGY PONTOISE  
FRANCE  
tel : +33 (0)1 30 17 88 00  
fax : +33 (0)1 30 17 88 20

**E-mail address** sds.info@upl-ltd.com

#### 1.4 Emergency telephone number

Emergency Telephone (CARECHEM 24): +44 (0) 1235 239670

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**Section 2: HAZARDS IDENTIFICATION**

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**2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

<b>Acute toxicity - Oral</b>	Category 4 - (H302)
<b>Acute toxicity - Inhalation (Dusts/Mists)</b>	Category 4 - (H332)
<b>Chronic Aquatic Toxicity</b>	Category 2 - (H411)

**Additional information**

For the full text of the H-Statements mentioned in this Section, see Section 16

**2.2 Label elements****Labeling according to Regulation (EC) No. 1272/2008 [CLP]****signal word**

WARNING

**Hazard Statements**

H302 - Harmful if swallowed

H332 - Harmful if inhaled

H411 - Toxic to aquatic life with long lasting effects

**Precautionary statements**

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P264 - Wash face, hands and any exposed skin thoroughly after handling

P270 - Do not eat, drink or smoke when using this product

P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell

P330 - Rinse mouth

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P312 - Call a POISON CENTER or doctor if you feel unwell

P273 - Avoid release to the environment

P501 - Dispose of contents/ container in accordance with national regulation

**EU Specific Hazard Statements**

EUH401 - To avoid risks to human health and the environment, comply with the instructions for use

**2.3 Other Hazards**

No information available

### Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2. Mixtures

Chemical name	CAS No	EC No	Index-No.	REACH No.	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Tribasic Copper Sulphate	1333-22-8	215-582-3	029-018-00-7	01-2120832153-65-0000	80 - 90	Acute Tox. 4 (H302) Acute Tox. 4 (H332) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
Mixture with Sodium xylenesulfonate (> 90%) - Cas 1300-72-7	-	-	-	-	1 - 5	Eye Irrit. 2 (H319)

**Full text of H- and EUH-phrases: see section 16**

**NOTE**

**CAS-No: Tribasic Copper Sulphate : 1333-22-8; 12527-76-3**

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## Section 4: FIRST AID MEASURES

### 4.1 Description of first-aid measures

#### **General advice**

- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

#### **Inhalation**

- Move to fresh air
- Call a POISON CENTER or doctor if you feel unwell

#### **Eye contact**

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- If eye irritation persists, consult a specialist

#### **Skin contact**

- Wash off immediately with plenty of water
- If symptoms persist, call a physician

#### **Ingestion**

- Rinse mouth with water
- Call a POISON CENTER or doctor if you feel unwell

#### **Self-protection of the first aider**

- First aider: Pay attention to self-protection

### 4.2 Most Important Symptoms and Effects, Both Acute and Delayed

#### **Symptoms**

- No information available

### 4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed

#### **Note to physicians**

- Treat symptomatically

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## Section 5: FIRE-FIGHTING MEASURES

### 5.1 Extinguishing media

#### **Suitable Extinguishing Media**

- Non-combustible. Use materials appropriate for surrounding fire.

#### **Unsuitable extinguishing media**

- No information available

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

#### **Hazardous combustion products**

- No information available

### 5.3 Advice for Firefighters

- Wear self-contained breathing apparatus and protective suit

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**Section 6: ACCIDENTAL RELEASE MEASURES**

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**6.1 Personal precautions, protective equipment and emergency procedures****For non-emergency personnel***Personal Precautions*

- Avoid contact with skin and eyes
- Wear protective gloves/protective clothing and eye/face protection

*Emergency procedures*

- Evacuate personnel to safe areas

**Emergency responder**

- Use personal protective equipment as required
- Evacuate personnel to safe areas

**6.2 Environmental Precautions**

- Prevent further leakage or spillage if safe to do so
- Do not allow material to contaminate ground water system
- Do not flush into surface water or sanitary sewer system

**6.3 Methods and material for containment and cleaning up****Methods for containment**

- Prevent further leakage or spillage if safe to do so

**Methods for cleaning up**

- Take up mechanically, placing in appropriate containers for disposal

**Prevention of secondary hazards**

- Clean contaminated objects and areas thoroughly observing environmental regulations

**6.4 Reference to other sections**

- No information available

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**Section 7: HANDLING AND STORAGE**

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**7.1 Precautions for safe handling****Advice on safe handling**

- Provide appropriate exhaust ventilation at places where dust is formed
- Use only outdoors or in a well-ventilated area
- Wear protective gloves/protective clothing and eye/face protection
- Ensure that eyewash stations and safety showers are close to the workstation location

**General hygiene considerations**

- Do not eat, drink or smoke when using this product
- Keep away from food, drink and animal feeding stuffs
- Avoid contact with skin and eyes
- Wash hands before breaks and immediately after handling the product
- Remove contaminated clothing and protective equipment before entering eating areas

**7.2 Conditions for safe storage, including any incompatibilities**

- Keep only in the original container/package in a cool well-ventilated place
- Keep in a dry place
- Keep at temperatures below 40 °C

**7.3 Specific end uses**

- Fungicides
- Please refer to the product labeling and packaging for information about appropriate use

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**Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**8.1 Control Parameters****Exposure Limits****8.2 Exposure Controls****Engineering controls**

- Ensure adequate ventilation, especially in confined areas

**Personal Protective Equipment***Eye/face protection*

- Safety glasses with side-shields
- Eye protection must conform to standard EN 166

*Hand protection*

- Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

Wash gloves when contaminated. Dispose of when contaminated inside, when perforated or when contamination on the outside cannot be removed.

Wash hands frequently and always before eating, drinking, smoking or using the toilet.

- Gloves must conform to standard EN 374
- Wear protective nitrile rubber gloves
- Rate of permeability : > 480 min
- Glove thickness : > 0,4 mm

*Skin and body protection*

- Wear standard coveralls and Category 3 Type 4 suit.

If there is a risk of significant exposure, consider a higher protective type suit.

Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and should be professionally laundered frequently.

*Respiratory protection*

- When workers are facing concentrations above the exposure limit they must use appropriate certified respirators

**General hygiene considerations**

- Handle in accordance with good industrial hygiene and safety practice

**Environmental exposure controls**

- Local authorities should be advised if significant spillages cannot be contained
- Do not allow into any sewer, on the ground or into any body of water
- Prevent product from entering drains

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

<b>Appearance</b>	Dark green	
<b>Physical state</b>	solid water dispersible granule (WG)	
<b>Odor</b>	No discernible odour	
<u>Property</u>	<u>VALUES</u>	<u>Remarks/ Method</u>
<b>pH</b>	6.99	(1% solution), CIPAC MT 75.3
<b>Melting point/freezing point</b>	No information available	
<b>Boiling Point/Range</b>	No information available	
<b>Flash Point</b>	Not required	
<b>Flammability (solid, gas)</b>	Not flammable	EC A.10
<b>Bulk density</b>	0.996 g/mL 1.090 g/mL	Pour density Tap density CIPAC MT 159
<b>Solubility in Other Solvents</b>	No information available	
<b>Partition coefficient: n-octanol/water</b>	No information available	
<b>Autoignition temperature</b>	213 °C	EC A.16
<b>Decomposition temperature</b>	No information available	
<b>Viscosity</b>	Not Applicable	solid
<b>Oxidizing properties</b>	Non oxidizing	EC A.17
<b>Explosive properties</b>	According to the chemical structure no explosion reaction is expected	EC A.14

### 9.2 OTHER INFORMATION

**VOC Content** No information available

## Section 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

- No information available

### 10.2 Chemical stability

- Stable under normal conditions

### 10.3 Possibility of hazardous reactions

- None under normal processing

### 10.4 Conditions to avoid

- Keep away from open flames, hot surfaces and sources of ignition

### 10.5 Incompatible materials

- No materials to be especially mentioned

### 10.6 Hazardous decomposition products

- Non flammable, decomposition products through pyrolysis: CuO, CaSO<sub>4</sub>, H<sub>2</sub>O.



## Section 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on Toxicological Effects

#### Product Information

- The toxicological data presented is for a formulated product with similar composition

#### Acute toxicity

*LD50 Oral* > 500 - < 2000 mg/kg (rat) bw. - OECD 401  
*LD50 Dermal* > 2000 mg/kg (rat) bw. - OECD 402

#### Components Information

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Tribasic Copper Sulphate	LD50 (rat) : 300 - 500mg/kg - OECD 401	LD50 (rat) >2000mg/kg - OECD 402	LC50 (Rat) = 2,314 mg/L, OECD 403

#### Skin corrosion/irritation

- No skin irritation, OECD 404

#### Serious eye damage/eye irritation

- No eye irritation, OECD 405

#### Respiratory or skin sensitization

- skin: Did not cause sensitization, (guinea pig), OECD 406

#### Germ cell mutagenicity

- Copper** : Not Listed

#### Carcinogenicity

- Copper** : Not Carcinogenic

#### Reproductive toxicity

- This product does not contain any known or suspected reproductive hazards

#### Specific target organ toxicity (single exposure)

- Copper** : Not applicable

#### Specific target organ toxicity (repeated exposure)

- Copper** : Not applicable

#### Aspiration hazard

- Copper** : Not applicable

## Section 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

#### **Product Information**

Product information The data presented is for a formulated product with similar composition

*EC50/72h/algae* = > 100 mg/L - OECD 201

*EC50/48h/daphnia* = 18 mg/L - OECD 202

*LC50/fish/96 h* = > 4 mg/L - OECD 203

#### **Components Information**

Chemical name	Freshwater Algae	Freshwater Fish	Daphnia Magna	Microtox
Tribasic Copper Sulphate	0.319 mg/L - OECD 201	0.18 mg/L - OECD 203	0.089 mg/L - OECD 202	-

### 12.2 Persistence and Degradability

- **Copper** : Not readily biodegradable

### 12.3 Bioaccumulative Potential

- Not applicable

### 12.4 Mobility in Soil

- **Copper** : weakly Mobile

### 12.5 Results of PBT and vPvB Assessment

- **Copper** : This substance is considered to be persistent, bioaccumulating and toxic (PBT)

### 12.6 Other Adverse Effects

- No information available

## Section 13: DISPOSAL CONSIDERATIONS

### 13.1 Waste Treatment Methods

#### **Waste from residues/unused products**

- Dispose of in accordance with local regulations

#### **Contaminated packaging**

- Empty containers should be taken for local recycling, recovery or waste disposal

#### **EWC waste disposal No**

- 020108 - agrochemical waste containing dangerous substances

#### **OTHER INFORMATION**

- According to the European Waste Catalogue, Waste Codes are not product specific, but application specific

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**Section 14: TRANSPORT INFORMATION****14.1 UN Number**

- ADR, IMDG, IATA : UN3077

**14.2 UN proper shipping name**

- ADR : Environmentally hazardous substance, solid, n.o.s. ( Tribasic Copper Sulphate )
- IMDG : Environmentally hazardous substances, solid n.o.s. ( Tribasic Copper Sulphate )
- IATA : Environmentally hazardous substances, solid n.o.s. ( Tribasic Copper Sulphate )

**14.3 Transport Hazard Class(es)**

*Hazard class*

- ADR, IMDG, IATA : 9

*Subsidiary class*

- ADR, IMDG, IATA : Not applicable

**14.4 Packing Group**

- ADR, IMDG, IATA : III

**14.5 Environmental Hazards**

- ADR, IATA : Yes
- IMDG : Marine pollutant

**14.6 Special Precautions for User**

*Special Provisions*

- ADR : 274, 335, 375, 601
- IMDG : 274, 335, 966, 967, 969
- IATA : A97, A158, A179, A197

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

- Not applicable

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**Section 15: REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

- To avoid risks to human health and the environment, comply with the instructions for use

**15.2 Chemical safety assessment**

- A chemical safety assessment has not been carried out

**Section 16: OTHER INFORMATION****Full text of H-Statements referred to under sections 2 and 3**

- H302 - Harmful if swallowed
- H319 - Causes serious eye irritation
- H332 - Harmful if inhaled
- H400 - Very toxic to aquatic life
- H410 - Very toxic to aquatic life with long lasting effects
- H411 - Toxic to aquatic life with long lasting effects

**Classification procedure**

- On basis of test data

**Abbreviations and acronyms**

- CLP : Classification, Labelling and Packaging = Regulation (EC) No 1272/2008
- CAS : Chemical Abstracts Service
- EC No : EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- LDx : Lethal dose to x %
- LCx : Lethal concentration to x %
- ECx : Effective concentration to x %
- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
- Persistent, Bioaccumulative, and Toxic (PBT) Chemicals
- Very Persistent and very Bioaccumulative (vPvB) Chemicals
- EWC : European Waste Catalogue
- ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road
- IMDG : International Maritime Dangerous Goods Code
- IATA : International Air Transport Association

**Preparation Date** 04-Jun-2012

**Revision date** 19-Mar-2020

**Reason for revision** Not applicable

**This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 + Commission Regulation (EU) No 2015/830 of 28 May 2015**

**Disclaimer**

The information contained is based on our knowledge of the product at the date of publishing. It applies to the PRODUCT AS SUCH. In case of formulation or mixture, make sure that a new danger will not appear. Users are advised of possible additional hazards when the product is used in applications for which it was not intended. This sheet shall only be used and duplicated for prevention and Safety purposes. For rates and use recommendations, refer to the information displayed on the packaging. It is the responsibility of the handlers of the product to pass on this safety data sheet to any subsequent persons who will come into contact with the product.

**End of Safety Data Sheet**