

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Trade Name: **Copper Oxychloride (50% Cu) WG**

UFI: TDF6-3A8D-6A04-XP4R

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

Identified uses: Fungicide and Bactericide for crop protection. Industrial use.

Uses advised against: Do not use for other purposes other than those described in the product.

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

Supplier: **INDUSTRIAS QUIMICAS DEL VALLÉS, S.A.**

Address: Av. Rafael Casanova, 81  
08100 – Mollet del Vallés ( Barcelona ) - Spain

Telephone number: (34) 935.796.677

Fax: (34) 935.791.722

E-mail address for a competent person responsible for the safety data sheet:

[fsegur@iqvagro.com](mailto:fsegur@iqvagro.com)

### 1.4. Emergency telephone number Appointed body relating to emergency health response

Availability: (To be consulted according to the appointed body)

Other comments: No information available.

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Hazard Classes/ categories

Acute Tox. oral. Cat 4  
Acute Tox. Inhalation Cat 4  
Aquatic Tox. Acute Cat 1  
Aquatic Tox. Chronic Cat.1

#### Hazard statement(s)

H302: Harmful if swallowed.  
H332: Harmful if inhaled.  
H400: Very toxic to aquatic life.  
H410: Very toxic to aquatic life with long lasting effects.

#### M-Factors

N/A

### 2.2. Label elements

#### Labelling according to Regulation (EC) 1272/2008 CLP

##### Pictograms and Signal word



**WARNING**

##### Hazard statement(s)

H302 Harmful if swallowed.  
H332 Harmful if inhaled.  
H410 Very toxic to aquatic life with long lasting effects.

##### Precautionary statement(s)

P261 Avoid breathing dust and spray.  
P264 Wash hands thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P312 Call a POISON CENTER or doctor/physician if you feel unwell.  
P391 Collect spillage.  
P501 Dispose of contents/container to an authorised chemical waste disposal site.

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

Authorisation REACH number(s) :

The substance/mixture does not require registration under Regulation (EC) No. 1907/2006 REACH (art. 15).

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**2.3. Other hazards**

Compliance with PBT/vPvB criteria :

This substance/mixture does not meet the PBT criteria of Annex XIII of the REACH Regulation.

This substance/mixture does not meet the vPvB criteria of Annex XIII of the REACH Regulation.

Other hazards which do not result in classification :

The substance/mixture is not included in the list established in accordance with Article 59(1) due to their endocrine disrupting properties, nor have they been identified as having endocrine disrupting properties according to the criteria set out in Commission Delegated Regulation (EU) 2017/2100 and Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0.1%.

**2.4. Phrases for special risks:**

SP1: Do not contaminate water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads).

**SECTION 3: Composition/information on ingredients**

3.1. Substance: Not applicable.

3.2. Mixtures:

Chemical name	Content (%)	EC number	CAS Number	REACH No.	Classification Regulation (EC) 1272/2008	Hazard statement(s)*
Dicopper chloride trihydroxide (Copper Oxychloride Technical)	85.03 – 90.9	215-572-9	1 3 3 2 - 4 0 - 7 / 1332-65-6	Exempt by art.15 of REACH reg.	Acute Tox. oral. Cat 3 (ATE oral = 299mg/kg bw) Acute Tox. Inhalation. Cat 4 (ATE inhalation = 2.83 mg/L) Aquatic Tox. Acute Cat 1 Aquatic Tox. Chronic. Cat.1 (Annex VI)	H301 H332 H400; M=10 H410; M=10'
Naphthalenesulfonic acid, methyl-, polymer with formaldehyde, sodium salt	≥ 1 - 3	-	8 1 0 6 5 - 5 1 - 2	Not available	Eye irritation Cat. 2 Aquatic Chronic tox. Cat. 3  (Self-classification)	H319 H412
Reaction product of naphthalene, propan-2-ol, sulfonated and neutralized by caustic soda	≥ 1 - 3	-	-	01-2119969954-16-0000	Acute Tox. Oral Cat.4 Acute Tox. Inhalation Cat.4 Serious eye damage Cat.1 Specific target organ toxicity - single exposure, Cat.3  (Self-classification)	H302 H332 H318 H335

(\*) See the full text of the hazard statements in section 16.

**SECTION 4: First aid measures**
**4.1. Description of first aid measures**

General notes:

If symptoms persist, call a physician.

In case of inhalation:

If symptoms are experienced remove source of contamination or move victim to fresh air. Obtain medical advice.

In case of contact with skin:

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention if irritation develops.

In case of contact with eyes:

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Do not forget to take off contact lenses. Get medical attention if irritation occurs.

En case of ingestion:

 Check breathing  
 If necessary artificial respiration.



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Keep the patient at rest  
Maintain body temperature  
Never give anything by mouth to an unconscious person.  
If swallowed, do not induce vomiting.  
If the person is unconscious lay her on her side with the head lower than the rest of the body and semiflexed knees.  
Request attention medical and show this tab or label

Recommendations for first aid responders:

Use suitable protective clothing  
Never leave patient alone.

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

Most important symptoms and effects, both acute and delayed: Burning pain in the mouth and pharynx, nausea, watery and bloody stools, diarrhea, decrease in blood pressure.  
Headache and weakness may occur, proceeding to fainting or unconsciousness  
Risk of renal and hepatic alterations

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

Indication of any immediate medical attention and special treatment needed:

Antidote: EDTA, BAL or penicillamine. Symptomatic treatment.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media:

Use dry chemical or CO<sub>2</sub>, water spray (fog) or foam.  
Collect contaminated fire-fighting water separately. It must not enter the sewage system.

Unsuitable extinguishing media:

Water jet from high flow (due to risk of contamination).

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

Hazardous combustion products:

Combustion will evolve in oxides of copper and hydrogen chloride.

Other specific hazards:

Not known.

#### 5.3. Advice for firefighters

Advice for firefighters:

Wear suitable protective clothing and dust mask with filter for chemicals.

### SECTION 6: Accidental release measures

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

For non-emergency personnel:

Do not breathe the powder, mist or spray.

Avoid contact with mouth, eyes and skin

Keep unauthorised people, children and animals away from the spillage area

Wear suitable protective clothing and gloves to prevent contamination

For emergency responders:

Not available

#### 6.2. Environmental precautions

Environmental precautions:

Keep out of waterways.

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

Containment:

Construction of barriers of protection, drains and coating methods.

Cleaning:

Cover the product with sawdust, sand or dry land, sweep it, insert it into a dry container, cover it, identify it and dispose in an authorized place.

Do not clean the area contaminated with water.

Other information:

Do not use brushes or compressed air to clean surfaces or clothing.

#### 6.4. Reference to other sections

Reference to other sections:

No information available.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Containment and measures to prevent fire:

The job and the methodology should be organized in such a way that direct contact with the product is minimized or prevented. Handle with care.



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Measures to prevent aerosol and dust generation:	Workspaces Use with adequate ventilation and safety showers presence next. Avoid spills and leaks
Measures to reduce the release of the substance or mixture to the environment:	No information available.
Advice on general occupational hygiene:	Eating, drinking and smoking should not be allowed in the work area. Wash hands after use, and remove clothing and protective equipment contaminated before entering eating areas.
<b>7.2. Conditions for safe storage, including possible incompatibilities</b>	
Technical measures and storage conditions:	Store the product in its original container, closed and tagged, in cool, dry, ventilated and away from food, beverages and feed. Keep out of reach of children, animals and unauthorized personnel
Packaging materials:	No information available.
Requirements for storage rooms and vessels:	Keep container closed after use. Avoid high temperatures and frost.
Further information on storage conditions:	No information available.
<b>7.3. Specific end use(s)</b>	
Recommendations:	The product is for plant protection use.
Industrial sector specific solutions:	-

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

DNEL data:	Not available
Information on monitoring procedures:	Not available.
Currently recommended monitoring methods:	Not available.
Specific monitoring standards:	Not available.
PNEC data:	Not available
Control banding approach ("control banding"):	Good industrial hygiene practices

### 8.2. Exposure controls

#### Appropriate engineering controls:

Appropriate exposure control measures related to the identified use(s) of the substance or mixture:	-
Structural measures to prevent exposure:	No information available.
Organisational measures to prevent exposure:	No information available.
Technical measures to prevent exposure:	No information available.

#### Individual protection measures, such as personal protective equipment

Eye/Face protection:	Avoid contact. Safety glasses with side-shields or face shield.
Hand Protection:	Wear chemical resistant gloves. After use, wash with soap and water inside and outside and keep them dry for later uses.
Others:	Mittens, boots or coverall depending on the hazards associated with the substance or mixture and the possibilities of contact.
Respiratory Protection:	In case of insufficient ventilation, use respiratory protection equipment while preparing the mixture, as well as in loading, application, cleaning and equipment maintenance operations: use respiratory protection against chemicals / particles. Avoid breathing particles.
Thermal hazards:	Not available
Skin Protection	Wear suitable clothing to avoid repeated or delayed contact with skin. Clothing must be fitted to the body to ensure the complete coverage with no openings which come into contact with chemicals, Thoroughly wash working clothes daily. After use, wash with soap and water and keep the clothes dry.

#### Environmental exposure controls

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Appropriate exposure control measures related to the identified use(s) of the substance or mixture:

Prevent the spills to the environment. Keep the product in its original container, locked up and away from adverse climatic conditions. Keep away from drains and sewage systems.

Structural measures to prevent exposure: No information available.  
Organisational measures to prevent exposure: No information available.  
Technical measures to prevent exposure: No information available.

**SECTION 9: Physical and chemical properties**

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

Appearance: Slightly green granules  
 Odour: Odourless  
 Odour threshold: No data available  
 pH-value at 1%: 7.5 (20 °C)  
 Melting point/freezing point: No data available  
 Initial boiling point and boiling range: No data available  
 Flash point: Not relevant, since Copper Oxychloride 50% (Cu) WG is a solid preparation.  
 Evaporation Rate: No data available  
 Flammability (solid, gas): Non-flammable  
 Upper/lower flammability or explosive limits: No data available  
 Vapour pressure: No data available  
 Vapour density: No data available  
 Bulk density: 1.16 – 1.18 g/mL  
 Relative density: Not relevant, since Copper Oxychloride 50% (Cu) WG is a not liquid.  
 Solubility (ies):  
 - hydrosolubility: Practically insoluble  
 - liposolubility: Insoluble  
 Partition coefficient: n-octanol/water: No data available  
 Auto-ignition temperature: 248°C  
 Decomposition temperature: No data available  
 Viscosity: Not relevant, since Copper Oxychloride 50% (Cu) WG is a not liquid.  
 Explosive properties: Non-explosive  
 Oxidising properties: Non-oxidising

**9.2. Other information**

Average particle size distribution: 90% between 100 - 400 µm

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

Reactivity: No data available

**10.2. Chemical stability**

Chemical stability: Stable under normal conditions of storage for a period of 2 years, as minimum.

**10.3. Possibility of hazardous reactions**

Possibility of hazardous reactions: No data available

**10.4. Conditions to Avoid**

Conditions to Avoid: Moisture and temperatures above 40 ° C

**10.5. Incompatible materials**

Incompatible materials: Acids and ammonium salts partially dissolve the product

**10.6. Hazardous decomposition products**

Hazardous decomposition products: Copper oxychloride decomposes at temperatures above 200 ° C producing acid hydrochloric (HCL). Other hazardous decomposition products that may occur are the oxides of sulphur (SOx) and carbon (COx). It does not decompose if stored and applied as directed.

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**SECTION 11: Toxicological information**
**11.1. Information on toxicological effects**

11.1.2. Mixtures		Results
Acute toxicity	Ingestion: LD50	501 - 1999 mg/kg b.w. Rat <ul style="list-style-type: none"> <li>Evaluation / result: Harmful if swallowed.</li> </ul>
	Inhalation : LC50	2.32 mg/l Rat (4h) <ul style="list-style-type: none"> <li>Evaluation / result: Harmful if inhaled.</li> </ul>
	Skin: LD50	>2000 mg/kg b.w.-Rat <ul style="list-style-type: none"> <li>Evaluation / result: Under the available results, the mixture does not meet the classification criteria.</li> </ul>
Irritation:		Skin: No oedema, no erythema (Rabbit) <ul style="list-style-type: none"> <li>Evaluation / result: Under the available results, the mixture does not meet the classification criteria.</li> </ul> Eye: No effects (Rabbit) <ul style="list-style-type: none"> <li>Evaluation / result: Under the available results, the mixture does not meet the classification criteria.</li> </ul>
Corrosivity:		The mixture does not meet corrosive effects.
Sensitisation:		Non sensitizer (Guinea pig) <ul style="list-style-type: none"> <li>Evaluation / result: Under the available results, the mixture does not meet the classification criteria.</li> </ul>
Repeated dose toxicity:		It does not meet the classification criteria.
Carcinogenicity:		It does not meet the classification criteria.
Mutagenicity:		It does not meet the classification criteria.
Toxicity for reproduction:		It does not meet the classification criteria.

 Information on likely routes of exposure:  
 Main effects:

 There is no evidence of symptoms associated with this substance/mixture  
 No information available.

 Delayed and immediate effects as well as chronic effects from short and long-term exposure:  
 Interactive effects:

 No information available.  
 No information available.

Endocrine disrupting potential:

The substance/mixture is not included in the list established in accordance with Article 59(1) due to their endocrine disrupting properties, nor have they been identified as having endocrine disrupting properties according to the criteria set out in Commission Delegated Regulation (EU) 2017/2100 and Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0.1%.

**SECTION 12: Ecological information**
**12.1. Toxicity**
**Acute toxicity (short-term)**

Fishes:

No information available.

Algae:

72h ErC50 (S.capricornutum) = 0.130 mg/L

**Chronic (long-term) toxicity**

Fish:

No information available.

Aquatic invertebrates:

 21d NOEC (*D.magna*) = 0.102 mg /L

**12.2. Degradability**

Abiotic Degradation:

No information available.

Physical- and photo-chemical elimination:

No information available.

Biodegradation:

No information available.

Other processes:

Copper is strongly absorbed by soils, and it does not degrade.

**12.3. Bioaccumulative potential**

Partition coefficient n-octanol /water (Kow):

No information available.

Bioconcentration factor (BCF):

Copper does not bioaccumulate. Organisms excrete copper naturally.

**12.4. Mobility in soil**



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Known or predicted distribution to environmental compartments:

Copper that is added to the soil mainly becomes bound to organic material. The content of organic material in the soil and the pH determine the degree of copper availability. Through the strong bounding to various soil components, the leaching out of copper is extremely low. Mobility in soil towards deeper layers is negligible.

Surface tension:

No information available.

Adsorption/Desorption:

No information available.

#### 12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment:

This mixture does not contain any substance that has been assessed as PBT or vPvB

#### 12.6. Other adverse effects

Other adverse effects:

No information available.

Environmental fate:

No information available.

Photochemical ozone creation potential:

No information available.

Ozone depletion potential:

No information available.

Endocrine disrupting potential:

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Global warming potential:

No information available.

#### 12.7. Other information

Other information:

No information available.

#### 12.8. Ecotoxicity

Ecotoxicity:

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

#### 12.9. Toxicological effects

Toxicological effects:

No information available.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Appropriate methods of waste treatment of both substance or mixtures:

Waste should not be removed through the sewer. The elimination will be followed according to local, State or national provisions.

Appropriate methods of waste treatment of contaminated packaging:

The elimination will be followed according to local, State or national provisions. Either by incineration or recycling.

Waste codes / waste designations according to LoW:

No information available.

Appropriate methods for the elimination of contaminated packaging:

No information available.

Special precautions:

No information available.

Community/national/regional provisions relating to waste management:

No information available.

Community/national/regional provisions relating to waste:

The elimination will be followed according to local, State or national provisions.

### SECTION 14: Transport information

#### ADR/RID

14.1 UN Number:

UN3077

14.2 Proper Shipping Name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains COPPER OXYCHLORIDE TECHNICAL)

**COPPER OXYCHLORIDE 50 WG**

**14.3** Transport Hazard Class:

9



ADR/RID Classification: M7

**14.4** Packing group:

III

Label: 9

**14.5** Environmental Hazards:

Contains copper oxychloride technical.

**14.6** Special precautions for user:

Special Provisions:274,335,601  
Limited Quantities: 5 kg  
Packing Instructions:P002,IBC08,LP02,R001  
Special Packing Provisions: VV1  
Hazard identification number:90  
Kemler Code: 000

**14.7** Transport in bulk according to Annex II of Marpol and the IBC Code:

Not applicable.

**IMDG**

**14.1** UN Number:

UN3077

**14.2** Proper Shipping Name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains COPPER OXYCHLORIDE TECHNICAL)

**14.3** Transport Hazard Class:

9

**14.4** Packing group:

III

**14.5** Environmental Hazards:

Marine Pollutant: Yes

**14.6** Special precautions for user:

Label: 9  
EmS Guide: F-A, S-F

**14.7** Transport in bulk according to Annex II of Marpol and the IBC Code:

Not applicable

**IATA**

**14.1** UN Number:

UN3077

**14.2** Proper Shipping Name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains COPPER OXYCHLORIDE TECHNICAL)

**14.3** Transport Hazard Class:

9

**14.4** Packing group:

III

**14.5** Environmental Hazards:

Contains copper oxychloride technical.

**14.6** Special precautions for user:

Label: 9

**14.7** Transport in bulk according to Annex II of Marpol and the IBC Code:

Not applicable

**SECTION 15: Regulatory information**

EU regulations

Regulation (EC) No 2020/878 amending Annex II of Regulation (EC) No 1907/2006 (REACH). Regulation (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures.

Phytosanitary Registration Number:

A plant protection registration number has not been declared.

Use authorizations:

A wettable granules fungicide and bactericide for crop protection. Industrial use.

Use restrictions:

Do not use for other purposes other than those described in the product.

Other EU regulations:

No information available.

Information on emission of volatile organic compounds (VOC):

No information available.

National regulations:

No information available.

**15.2. Chemical safety assessment**

Chemical safety assessment:

No information available.



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#### SECTION 16: Other information

Reason for revision:	Regulation (EC) No 2020/878 amending Annex II of Regulation (EC) No 1907/2006 (REACH). Regulation (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures.
Changes to the previous version:	1.1; 2.3; 3.2; 9; 11; 12; 15.
Abbreviations and acronyms:	SDS: Safety Data Sheet OEL: Occupational Exposure Limit NACE: Nomenclature Générale des Activités Économiques dans les Communautés Européennes (French, EU classification system) TRGS: Real Time Gross Settlement OECD: Organisation for Economic Co-operation and Development PBT: Persistent, Bioaccumulative and Toxic vPvB: Very Persistent and very Bioaccumulative DNEL: Derived non-effect level PNEC: Predicted non-effect concentration LC50: Lethal concentration 50% LD50: Lethal dose 50% NOEL: Non-observed effect level NOAEL: Non observed adverse effect level NOAEC: Non observed adverse effect concentration SVHC: Substances of Very High Concern
Key literature references and sources for data:	REACH Registraton dossier and database of registered substances on the European Chemicals Agency (ECHA).
Indication of which of the methods of evaluating information referred to in Article 9 of Regulation (EC) No 1272/2008 was used for the purpose of classification:	Test methods were conducted in accordance with the article 8 of Regulation 1272/2008.
Hazard statements mentioned in Section 3:	<b>Hazard statement(s)</b> H301: Toxic if swallowed. H302: Harmful if swallowed. H318: Causes serious eye damage. H319: Causes serious eye irritation. H332: Harmful if inhaled. H335: May cause respiratory irritation. H400: Very toxic to aquatic life. H410: Very toxic to aquatic life with long lasting effects. H412: Harmful to aquatic life with long lasting effects.
Advice on any training appropriate for workers:	No information available.
Other information:	This information is based on the knowledge we have so far. This SDS refers exclusively to this product. All chemical substances in this product have been reported or are exempt from notification under notification to the EC laws.

Information in this SDS is based on the available published sources and is believed to be accurate. No warranty, express or implied, is made and our company assumes no liability resulting from the use of this SDS. The user must determine suitability of this information for his application. The specifications of this safety data sheet describes the safety requirements of our product, this is not a guarantee of characteristics. They are based on current state.