

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

1.1. Product identifier

Trade Name: COPPER HYDROXIDE 61.41% WG

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

Identified uses: Fungicide and bactericide to crop protection.
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 QUÍMICAS DEL VALLÉS, S.A.**
Av. Rafael Casanova, 81
Address: 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

1.4. Emergency telephone number

Availability: **Appointed body relating to emergency health response**
(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

Classification according to GHS Regulation (Globally Harmonized System)

Hazard Classes/ categories		Hazard statement(s)	M-Factors
Acute Tox. Oral	Cat.4	H302: Harmful if swallowed.	N/A
Acute Tox. Inhalation	Cat.4	H332: Harmful if inhaled.	
Aquatic Acute Tox.	Cat.1	H400: Very toxic to aquatic life.	
Aquatic Chronic Tox.	Cat.1	H410: Very toxic to aquatic life with long lasting effects.	

2.2. Label elements

Labelling according to GHS Regulation (Globally Harmonized System)

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 hazardous waste collection site in accordance with local/national/international regulation.

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

EUH208: Contains Disodium maleate. May produce an allergic reaction.

2.3. Other hazards

Compliance with PBT/vPvB criteria : This substance/mixture does not meet the PBT criteria of Annex XIII of the REACH



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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. Substances: Not applicable.

3.2. Mixtures:

Chemical name	Content % (p/p)	EC/ List number	CAS Number	REACH No. (Applicable in the EU)	Classification Regulation (EC) 1272/2008 (GHS in the EU)	Hazard statement(s)*
Copper dihydroxide (copper hydroxide technical)	60.0 – 70.0	243-815-9	20427-59-2	Exempt by art.15 of REACH reg.	Acute Tox. Oral Cat. 4 (ATE Oral=500mg/kg bw) Acute Tox. Inhalation Cat. 2 (ATE inhalation=0.47mg/L) Eye damage Cat. 1 Aquatic Tox. Acute Cat. 1 Aquatic Tox. Chronic Cat. 1 (Annex VI)	H302 H330 H318 H400 ; M=10 H410 ; M=10'
Reaction product of naphthalene, propan-2-ol, sulfonated and neutralized by caustic soda	≥ 1-5	939-368-0	1469983-40-1	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
Disodium maleate	≥ 0,35 - < 0,7	206-738-1	371-47-1	--	Acute oral toxicity, Category 4 Skin sensitization, Sub-category 1B Specific target organ toxicity - single exposure, Category 3 (Respiratory system)	H302 H317 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 persists, 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.

In case of ingestion:

If irritation or discomfort occur, obtain medical advice.
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.

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. Treat Symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Use dry chemical or CO₂, Use dry chemical, CO₂, 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: Not known.
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.
Do not use brushes or compressed air to clean surfaces or clothing.

Other information:

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. Workspaces Use with adequate ventilation and safety showers presence next.



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Measures to prevent aerosol and dust generation:
Measures to reduce the release of the substance or
mixture to the environment: Avoid spills and leaks.
Advice on general occupational hygiene: No information available.
No information available.

7.2. Conditions for safe storage, including possible incompatibilities

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: -
Requirements for storage rooms and vessels: Storage Keep container closed after use. Avoid high temperatures and frost.
Further information on storage conditions: No data available
7.3. Specific end use(s)
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: Not available
Organisational measures to prevent exposure: Not available
Technical measures to prevent exposure: Not 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

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.



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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: Fine blue granule product.
Odour: Odourless
Odour threshold: No data available
pH-value at 1%: 7 - 10 (20 °C)
Melting point/freezing point: Not available
Initial boiling point and boiling range: Not available
Flash point: Not relevant since Copper Hydroxide 40% (Cu) WG is a solid preparation.
Evaporation Rate: Not available
Flammability (solid, gas): Non-flammable
Upper/lower flammability or explosive limits: Not available
Vapour pressure: Not available
Vapour density: Not available
Relative density: Not required since Copper Hydroxide 40% (Cu) WG is not a liquid.
Bulk density: 0.71 – 0.77 g/mL
Solubility (is):
Water solubility: Practically insoluble
Fat solubility: Practically insoluble
Partition coefficient: n-octanol/water: Not available
Auto-ignition temperature: >200 °C
Decomposition temperature: Not available
Viscosity: Not required since Copper Hydroxide 40% (Cu) WG is not a liquid.
Explosive properties: Non-explosive
Oxidising properties: Non-oxidising

9.2. Other information

Average particle size distribution: No nanoforms are considered to be used for the production of the formulation.
90% between 100 - 400 µm

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity: Not 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: Not 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 hydroxide decomposes at temperatures over 140 °C, producing water and copper oxide.
It does not decompose if stored and applied as directed.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

11.1.2. Mixtures		Results
Acute toxicity	Ingestion: LD50	300 < LD ₅₀ ≤ 2000 mg/Kg b.w. Rat • Evaluation / result: Harmful if swallowed.
	Inhalation: LC50	> 1.043 mg/l (4h) Rat • Evaluation / result: Harmful if inhaled.
	Skin: LD50	> 2000 mg/kg b.w. (96h) Rat • Evaluation / result: Under the available results, the mixture does not meet

	the classification criteria.
Irritation:	Skin: No oedema; no erythema (Rabbit) <ul style="list-style-type: none"> Evaluation / result: Under the available results, the mixture does not meet the classification criteria.
	Eye: Non irritant (Rabbit) <ul style="list-style-type: none"> Evaluation / result: Under the available results, the mixture does not meet the classification criteria.
Corrosivity:	Not corrosive since the formulation has been classified as a non irritant.
Sensitisation:	Not sensitizer. <ul style="list-style-type: none"> Evaluation / result: Under the available results, the mixture does not meet the classification criteria.
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:

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

Interactive effects:

11.2 Endocrine disrupting potential:

There is no evidence of symptoms associated with this substance/mixture

No data available

Not available.

Not available.

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:

LC₅₀ (*O. mykiss*) / 96 h = 0.033 mg / L

Crustaceans:

Not available.

Algae:

Not available.

Other aquatic plants:

Not available.

Micro-organisms:

Not available.

Aquatic invertebrates:

Not available.

Macro-organisms:

Not available.

Environmental toxicity

Birds:

Not available.

Bees:

Not available.

Plants:

Not available.

Chronic (long-term) toxicity

Fish:

92 d NOEC (*O.mykiss*) = 0.0313 mg / L

Crustaceans:

Not available.

Algae:

Not available.

Other aquatic plants:

Not available.

Microorganisms:

Not available.

Macroorganisms:

Not available.

Environmental toxicity

Birds:

Not available.

Bees:

Not available.

Plants:

Not available.

12.2. Degradability

Abiotic Degradation:

Not available.

Physical- and photo-chemical elimination:

Not available.

Biodegradation:

Not available.

Other processes:

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

12.3. Bioaccumulative potential

Partition coefficient n-octanol /water (Kow):

Not available.



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Bioconcentration factor (BCF):

12.4. Mobility in soil

Known or predicted distribution to environmental compartments:

Surface tension:

Adsorption/Desorption:

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment:

12.6. Endocrine disrupting potential:

Endocrine disrupting potential:

12.7. Other adverse effects

Other information:

12.8. Ecotoxicity

Ecotoxicity:

Copper does not bioaccumulate. Organisms excrete copper naturally.

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.

Not available.

Not available.

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

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%.

Not available.

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

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate methods of waste treatment of both substance or mixtures:

Appropriate methods of waste treatment of contaminated packaging:

Waste codes / waste designations according to LoW:

Appropriate methods of waste treatment of both substance or mixtures:

Appropriate methods for the elimination of contaminated packaging:

Special precautions:

Community/national/regional provisions relating to waste management:

Community/national/regional provisions relating to waste:

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

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

Not available.

Not available.

Not available.

Not available.

Not available.

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 HYDROXIDE TECHNICAL)

14.3 Transport Hazard Class:

9



ADR/RID Classification: M7

14.4 Packing group:

III

Label: 9

14.5 Environmental Hazards:

Contains copper hydroxide technical.



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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 HYDROXIDE 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

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

EmS Guide: F-A, S-F

Not applicable

IATA

14.1 UN Number:

UN3077

14.2 Proper Shipping Name:

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

14.3 Transport Hazard Class:

9

14.4 Packing group:

III

14.5 Environmental Hazards:

Contains copper hydroxide 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:

CIR-21040 / 2024

Use authorizations:

A wettable granule 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:

Not 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.

SECTION 16: Other information

Reason for revision:

Not applicable.

Changes to the previous version:

Not applicable.

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)



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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.

Relevant Hazard statements mentioned in Section 3

Hazard statement(s)

H302: Harmful if swallowed
H317: May cause an allergic skin reaction.
H330: Fatal if inhaled
H332: Harmful if inhaled.
H335: May cause respiratory irritation.
H318: Causes serious damage to eyes
H400: Very toxic to aquatic life.
H410: Very toxic 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.