

HIDRO CUP WG

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

1.1. Product identifier

Product name **HIDRO CUP WG**

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

Use : Fungicide

1.3. Details of the supplier of the safety data sheet

Company : Quimetal Industrial S.A.
Address : Los Yacimientos 1301 Maipú, Santiago – Chile
Telephone : (56-2) 2381 7000
Manufacturer information: www.quimetal.cl
e-mail address : comercial@quimetal.cl

1.4. Emergency phone number in Chile: (56-2) 2381 7000

Telephone number Poison Control in Chile: (56-2) 2247 3600. CITUC QUIMICO

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification

Acute toxicity, Oral, category 4
Serious eye damage, category 1
Acute toxicity, Inhalation, category 4
Acute Aquatic toxicity, category 1
Chronic aquatic toxicity, category 1

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word **Danger**

Hazard statement(s): H302, H318, H332, H400, H410

Precautionary statement(s)

Prevention: P261, P264, P270, P271, P273, P280

Response: P301+P312, P304 + P340, P305 + P351 + P338, P310, P312, P330, P391

Disposal: P501

2.3 Other hazards

Compliance with PBT/mPmB criteria: No risk in accordance with Regulations 1999/45 EC or not classified as PBT or vPvB

Other hazards which are not taken into account for classification: the substance/mixture is not classified as SVHC

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance

Component	Concentration	EC-No	CAS-No	Regulation (EC) No 1272/2008	Hazard statements
Copper dihydroxide (Cupric hydroxide)	77 % Copper hydroxide (50 % metallic copper)	243-815-9	20427-59-2	Acute toxicity, oral 4 Serious eye damage 1 Acute toxicity, Inhalation 4 Acute Aquatic 1 Chronic aquatic 1	H302 H318 H332 H400 H410

Registers of phrases – section 16

HIDRO CUP WG

4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult physician.

In case of skin contact: Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult physician.

4.2 Most important symptoms and effects, both acute and delayed: The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11

4.3 Indications of any immediate medical attention and special treatment needed: no data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media: Suitable extinguishing media. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture: Copper oxides

5.3 Advice for firefighters: Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information: no data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures: Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

6.2 Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up: Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections: For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling: Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities: Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Keep in a dry place.

7.3 Specific end use(s): Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters: Components with workplace control parameters

8.2 Exposure controls: Operate according to good agricultural practices GAP. Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection: Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Safety Data Sheet

According to GHS Regulations OSHA 2012, (EC) No. 453/2010

Review No: 2.1, This version replaces all previous versions

Review date: 05-03-2016

HIDRO CUP WG



Body Protection: Complete suit protecting against chemicals, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state/form/colour	: solid, granules, light blue-green
Odour	: no data available
Odour Threshold	: no data available
pH	: 7.0 to 10.5 at 5 % w/v
Melting point/range	: no data available
Boiling point/boiling range	: not relevant since it is a solid preparation
Flash point	: non-flammable
Evaporation rate	: not relevant since it is a solid preparation
Flammability (solid, gas)	: non-flammable
Lower/upper explosion limit	: no data available
Vapour pressure	: negligible at 20° C
Relative vapour density	: not relevant since it is a solid preparation
Density	: no data available
Solubility in other solvents	: no data available
Partition coefficient n-octanol/water	: no data available
Viscosity	: no data available
Explosive properties	: not explosive
Oxidizing properties	: no data available

10. STABILITY AND REACTIVITY

10.1 Reactivity: no data available

10.2 Chemical stability: Stable under recommended storage conditions for at least 2 years

10.3 Possibility of hazardous reactions: no data available

10.4 Conditions to avoid: Avoid excessive heat and humidity

10.5 Incompatible materials: Acids and ammonium salts partially dissolve the product

10.6 Hazardous decomposition products: Other decomposition products - no data available. In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

Acute toxicity: LD50 Oral - rat - > 2000 mg/kg

Acute dermal LD50 rat > 2.000 mg/kg

Acute inhalation toxicity: LC50 (rat) 1.94 mg/l air, 4h

Skin corrosion/irritation: nonirritating

Serious eye damage/eye irritation: It causes severe eye injuries

Respiratory or skin sensitization: no data available

Germ cell mutagenicity: no data available

Safety Data Sheet

According to GHS Regulations OSHA 2012, (EC) No. 453/2010

Review No: 2.1, This version replaces all previous versions

Review date: 05-03-2016

HIDRO CUP WG

Carcinogenicity: IARC: no component of this product presents at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity: no data available

Specific target organ toxicity -single exposure: no data available

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available



12. ECOLOGICAL INFORMATION

12.1 Toxicity: Toxic to aquatic life with long lasting effects

Acute toxicity (short term)

96 h / EC50 / O. Mykiss 0.023 mg/l

48 h / EC50 / Daphnia 0.0065 mg/l

72 h / CE50/ *Pseudokirchneriella subcapitata* 0,009 mg/ml

12.2 Persistence and degradability: copper is not degraded or dissipated, it is strongly absorbed by the soil, so it has very high persistence. It is not a readily biodegradable substance. No information available.

Physico-chemical and photo elimination: Not available

Biodegradation: Not available

12.3 Bio accumulative potential:

Bioconcentration factor (BCF): Copper does not bioaccumulate. The organisms excrete copper naturally

12.4 Mobility in soil

Known or predictable distribution to environmental compartments: Mobility copper to deeper soil layers is negligible.

Surface tension: No information available

Adsorption / Desorption: No information available

12.5 Results of PBT and vPvB assessment: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects: toxic to aquatic life.

12.7. Additional Information

Not available.

12.8. Toxicity

Toxic to aquatic life with long lasting effects.

12.9. toxicological effects

No data available

13. DISPOSAL CONSIDERATIONS

1.31 Waste treatment methods

Appropriate methods for removal of residues of the substance or mixture Contact your dealer, local authorities or an accredited waste disposal for the collection and disposal of products or unusable containers company. The useless products should be disposed of as hazardous waste

Appropriate methods for removal of possible contaminated packaging: Disposal will continue in accordance with local, state or national legislation. Either by incineration or recycling

Codes and designations of wastes pursuant to LoW with: No information available.

relevant to the treatment of waste information: No information available.

relevant to the treatment of wastewater information: No information available

Special precautions: No information available

Community / national / regional waste management provisions: No information available

Community / national / regional provisions related to waste management: Waste disposal continue according to local, state or national provisions

14. TRANSPORT INFORMATION

DOT/ADR/RID/IMO-IMDG

14.1. UN number: 3077

14.2 UN proper shipping name: Environmentally Hazardous Substance, Solid, N.O.S. (Cupric Hydroxide)

14.3. Transport hazard class (es): 9

14.4 Packing group: III

14.5 Environmental hazards: Marine Pollutant

14.6 Special precautions for use: Do not discharge to the environment

14.7 Transport in bulk according to Annex of MARPOL and the IBC Code: Not applicable

IATA-DGR/ICAO-TI

Not regulated

15. REGULATORY INFORMATION

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

International Regulations: Regulations 29 CFR 1910.1200 (OSHA HCS) GHS 2012, Regulation (EU) No 453/2010: Requirements for the development of the safety data sheet. Globally Harmonized System of Classification and Labelling of Chemicals (GHS). International Maritime Dangerous Goods (IMDG) Regulations of the International Civil Aviation Organization (ICAO) and the Association of International Air Transport Association (IATA) on the transport of dangerous goods by air, Regulations concerning the International Carriage of Dangerous Goods by rail (RID), European Agreement on international carriage of dangerous goods by road (ADR)

National regulations: NCH 2190 Of.93 `dangerous substance Transport-Signs for hazard identification, NCH 382 Hazardous Substances Of.89 - Terminology and general classification, 298 and 198 DS Transport of dangerous cargo, DS No. 594 Regulations and Sanitary Conditions Basic workplaces in environmental. NCH 2245 Of.2015 Safety Data Sheets for chemicals

15.2 Chemical Safety Assessment

The receiver must verify the possible existence of legal regulations applicable to chemical

16. OTHER INFORMATION

Revision Summary Update to GHS format, revision 2.1

Full text of H-5 statements referred to under sections 2 and 3

Hazard statement(s)

H302 Harmful if swallowed

H318 Causes serious eye damage

H332 Harmful if inhaled

H400 Very toxic to aquatic life

H410 Very toxic to aquatic life with long lasting effects

Safety Data Sheet

According to GHS Regulations OSHA 2012, (EC) No. 453/2010

Review No: 2.1, This version replaces all previous versions

Review date: 05-03-2016

HIDRO CUP WG



Precautionary statement(s)

P264 Wash the hands thoroughly after handling

P261 Avoid breathing dust

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

P271 Use only outdoors or in a well-ventilated area

P273 Avoid release to the environment

P280 Wear protective gloves/ eye protection/ face protection

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

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

P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 Immediately call a POISON CENTER or doctor/physician

P312 Call a POISON CENTER or doctor/physician if you feel unwell

P330 Rinse mouth

P391 Collect spillage

P501 Dispose of contents / container in accordance with local regulations

NFPA Rating

Health hazard: 2

Fire hazard: 1

Reactivity hazard: 0

Further information

The information contained in this fact sheet was obtained from reliable sources. The views expressed in this form are those of trained professionals. Information provided in is known today on the subject. Considering that the use of this information and the products is beyond the control of the supplier, the company not liable for this concept. Determine the condition of safe use of the product is the user's obligation.