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SAFETY DATA SHEETS

Date: **12/04/2011** Version: **5** Traceability:
Product identification: **COPPER HYDROXIDE 40% WG**
Country: **United States of America (USA)**
IQV SAFETY DATA SHEET according to Regulation CE 1907/2006

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

1.1. Identification of the substance or preparation.

Authorized brands: **AMERICOP 40 DF**

1.2. Use of the substance/preparation.

Fungicide and bactericide.

1.3. Company/undertaking identification.

Company: **INDUSTRIAS QUIMICAS DEL VALLES, S.A.**
Address: **Avda. Rafael Casanova, 81**
City: **08100 Mollet del Vallés**
Province/State: **Barcelona**
Country: **Spain**
Telephone: **34 935 796 677**
Fax: **34 935 791 722**
E-mail of the competent person responsible: **fsegur@iqvagro.com**

1.4. Emergency telephone.

Of the company: **34 935 796 677**
Of the relevant official advisory body: **34 915 620 420**

2. HAZARDS IDENTIFICATION

Classification:
Harmful. Dangerous for the environment.

Adverse effects physicochemical:
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Adverse effects and symptoms for human health:

Spain: Harmful by inhalation and if swallowed. Belgium, Luxembourg, Romania: Harmful if swallowed. Greece: Harmful if swallowed. Risk of serious damage to eyes. Portugal: Harmful if swallowed. Irritating to skin. Risk of serious damage to eyes.

Adverse effects for environment:

Spain, Belgium, Luxembourg, Greece, Romania: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Portugal: Very toxic to aquatic organisms.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Formulation: Water dispersible granule (WG)

Composition/ Chemical nature	Concentration	CAS N°	EC N°	Classification		
				Directive 67/548/EEC	Regulation (EC) 1272/2008	
				Classification and R Phrases (*)	Hazard Class and Category Code(s)	Hazard Statements Code(s)
Copper hydroxide	approx. 64,5 - 67,8% w/w (equivalent to 40% w/w Cu)	20427-59-2	243-815-9	T Xn, R22 T, R23 Xi, R41 N, R50/53	Eye Dam. 1 Acute Tox. 2 Acute Tox. 4 Aquatic Acute 1	H318 H330 H302 H400

(*) The full text of each relevant R phrase: See heading 16.

4. FIRST AID MEASURES

First aid measures:

- By inhalation:
Remove patient from exposure and into fresh air immediately. Seek medical advice immediately and show the label or this sheet where possible.
- In case of contact with skin:
Remove stained or sprinkled clothing immediately. Wash with plenty of soap and water, without rubbing. Seek medical advice if necessary.
- In case of contact with eyes:
Rinse with plenty of water at least for 15 minutes; take off contact lenses previously. Seek medical advice.
- If swallowed:
Seek medical advice and show this sheet or the label. Do not administer anything orally. Do not induce vomiting. Keep the patient at rest. Keep body temperature. Digestive endoscopy may be necessary. Hydroelectrolytic control. Control arterial pressure. In case of metahaemoglobinemia, administer Methylene blue at 1%. Antidote: EDTA, BAL or Penicilamine. Treat symptomatically.

Symptoms and effects:

Contact your local Antipoison Center

5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media:
The suitable extinguishing media are: any dry media, foam, carbon dioxide (CO₂)., If water has been used, separately collect contaminated water in order to avoid discharge into drains or aquatic environment.
- Extinguishing media which must not be used:
See above point.
- Specific hazards during fire fighting:
- Special protective equipment for fire-fighters:
Wear suitable protective clothing and dust mask with filter for chemicals.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions:
Do not breathe dust. Wear suitable protective clothing. Avoid contact with mouth, eyes and skin. Keep unauthorised people, children and animals away from the spillage area.
- Environmental precautions:
Avoid the product reaching the aquatic environment. If necessary, contain spillage by bunding with suitable materials.
- Methods for cleaning up:
Cover the product with sawdust, sand or dry earth, sweep up and shovel carefully into dry containers, close, mark and dispose of in an authorised landfill area. Do not clean contaminated area with water.

7. HANDLING AND STORAGE

7.1. Handling.

Avoid dust formation., Provide suitable ventilation and use suitable respiratory protection., Wear suitable clothing and protective gloves., Not smoking., Plants where the product is handled should have eye baths and water supply.

7.2. Storage.

Store the product in its original container, closed and labelled, in a cool, dry and ventilated place and away from food, drink and animal feeding stuffs. Keep out of reach of children, animals and non-authorised persons.

7.3. Specific use(s):

The product is for agricultural use.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Exposure limit values

Not available

8.2. Exposure controls

8.2.1 Occupational exposure controls

8.2.1.1. Respiratory protection:

Treat into wind., Use protection mask.

8.2.1.2. Hand protection:

Wear gloves. After use, wash with soap and water.

8.2.1.3. Eye protection:

Avoid contact., Use closed security goggles.

8.2.1.4. Skin protection:

Wear suitable clothing to avoid repeated or delayed contact with skin. Thoroughly wash working clothes daily. After use, wash with soap and water.

8.2.2. Environmental exposure controls:

Avoid uncontrolled release into the environment.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. General Information

Appearance: Blue-greenish granules

Odour: Light characteristic odour

9.2. Important health , safety and environmental information

pH: (1% suspension) 7.0-10.5

Boiling point/boiling range: Not applicable

Flash point: Not applicable

Flammability (solid/gas): Not flammable

Explosive properties: Not explosive

Oxidising properties: Not oxidant

Vapour pressure : Negligible

Density: (Tap density) 0.65 - 0.85 g/ml

Solubility:

Water solubility: Practically insoluble

Fat solubility: Practically insoluble

Partition coefficient: n-octanol/water: Not applicable

Viscosity: Not applicable

Vapour density: Not applicable

Evaporation rate: Not applicable

9.3. Other information

Wettability: 60 sec. max.

Suspension: 75 % min

Granulometry: 90% < 800 micres; 90% > 100 micres

10. STABILITY AND REACTIVITY

General conditions:

Stable in normal conditions during at least 2 years.

10.1 Conditions to avoid:

Corrosive in the long term to iron metals and alloys in presence of water/humidity

10.2 Materials to avoid:

Acids and ammonium salts dissolve the product.

10.3 Hazardous decomposition products:

Copper hydroxide decomposes at temperatures over 140 °C producing water and copper oxide.

Other dangerous decomposition products likely to be produced: SO_x, CO_x.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:

Oral:	LD50 (rat): 300–2000 mg/kg body weight
Dermal:	LD50 (rat) > 2000 mg/kg b.w.
Inhalation:	LC50 (rat) > 1,043 mg/l air
Irritation:	
- Skin:	Not irritating
- Eyes:	Not irritating

Skin sensitization: Copper hydroxide technical: Not sensitizer.

Chronic toxicity (short and long-term exposure):

Not applicable. Copper is widely present in food, feeding stuffs and water.

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity:

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

12.2 Mobility:

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 bonding to various soil components, the leaching out of copper is extremely low. Mobility in soil towards deeper layers is negligible.

12.3 Persistence and degradability:

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

12.4 Bioaccumulative potential:

Copper does not bioaccumulate. Organisms excrete copper naturally.

12.5 Results of the PBT assessment

Not available.

12.6 Other adverse effects

No other adverse effects expected.

13. DISPOSAL CONSIDERATIONS

Product:

Contact your supplier or the Local Authority or a reputable waste disposal company for collection and disposal of unwanted product or containers. Unwanted product shall be disposed of as hazardous waste.

Packaging:

Destroy the empty containers and dispose of in a secure and non-contaminating site.

14. TRANSPORT INFORMATION

(according to regulations in force at time of edition of this MSDS)

Transport ADR/RID:

- Class: 9, III
- Risk identification: 90
- Substance Nr.: 3077
- Declaration for land shipment: ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S. (Copper hydroxide).

Transport IMDG:

- Class: 9
- UN Nr.: 3077
- Declaration for sea shipment: ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S. (Copper hydroxide (40% w/w copper)).

Transport IATA:

- Class: 9
- UN Nr.: 3077
- Declaration for sea shipment: ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S. (Copper hydroxide (40% w/w copper)).

Product labelling 9, MPO

15. REGULATORY INFORMATION

The product is classified and labelled in accordance with the EC Directives D 67/548/EC and D 1999/45/EC, including amendment, on dangerous substances and preparations.

- COUNTRY:

- Hazard symbol(s): Xn, N
- Classification: Harmful. Dangerous for the environment.
- Risk phrases:
 SPAIN: R20/22: Harmful by inhalation and if swallowed. R50/53: Very toxic to aquatic organisms may cause long-term adverse effects in the aquatic environment.
 BELGIUM
 LUXEMBOURG
 ROMANIA: R22: Harmful if swallowed. R50/53: Very toxic to aquatic organisms may cause long-term adverse effects in the aquatic environment.
 GREECE: R22: Harmful if swallowed. R41: Risk of serious damage to eyes. R50/53: Very toxic to aquatic organisms may cause long-term adverse effects in the aquatic environment. RO3: Relatively non-toxic to bees. RO11: Harmful to livestock.
 PORTUGAL: R22: Harmful if swallowed. R38: Irritating to skin. R41: Risk of serious damage to eyes.

- Safety phrases:

- SPAIN: S2: Keep out of reach of children. S13: Keep away from food drink and animal feedingstuffs. S23: Do not breathe vapour. S23: Do not breathe spray. S24/25: Avoid contact with skin and eyes.
 BELGIUM
 LUXEMBOURG: S2: Keep out of reach of children. S13: Keep away from food drink and animal feedingstuffs. S20/21: When using do not eat drink or smoke. S23: Do not breathe spray. S35: This material and its container must be disposed of in a safe way. S61: Avoid release to the environment. Refer to special instructions / Safety data sheet.
 GREECE: S1/2: Keep locked up and out of reach of children. S13: Keep away from food drink and animal feedingstuffs. S20/21: When using do not eat drink or smoke. S24/25: Avoid contact with skin and eyes. S26: In case of contact with eyes

rinse immediately with plenty of water and seek medical advice. S36/37/39: Wear suitable protective clothing gloves and eye/face protection. S45: In case of accident or if you feel unwell seek medical advice immediately (show the label where possible). SY7: Wash contaminated clothing after work. SY8: Wash hands and underlying skin before eat drink or smoke and after use.

PORTUGAL: S13: Keep away from food drink and animal feedingstuffs. S23: Do not breathe spray. S36/37/39: Wear suitable protective clothing gloves and eye/face protection. S20/21: When using do not eat drink or smoke. Do not contaminate water with the product or its container. For protection of aquatic organisms do not apply in fields next to watercourses.

ROMANIA: S2: Keep out of reach of children. S20/21: When using do not eat drink or smoke. S46: If swallowed seek medical advice immediately and show this container or label. S61: Avoid release to the environment. Refer to special instructions / Safety data sheet.

16. OTHER INFORMATION

(*) Revised points with regard to previous version.

Full text of any R phrases and hazard statements referred to under headings 2 and 3:

R22: Harmful if swallowed. R38: Irritating to skin. R41: Risk of serious damage to eyes. R20/22: Harmful by inhalation and if swallowed. R23: Toxic by inhalation. R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Recommended restriction on use:

The information provided is believed to be accurate according to data available at the time of compilation. It is the receiver's responsibility to observe prevailing local regulations.