

matholding group

SAFETY DATA SHEET

According to Regulation (EC) No 453/2010 amending Annex II of Regulation (EC) No 1907/2006 (REACH)

2077_COC40MTX8WP_RO ARMETIL COBRE

Revision date:19-04-2013 Version:1.0 Replaces version :0 ()

19-Apr-13

Page: 1/ 9

COPPER OXYCHLORIDE 40% + METALAXYL 8% WP

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

1.1. Product identifier

Trade Name: ARMETIL COBRE

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

Identified uses: Fungicide

Uses advised against: You must 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 fsegur@iqvagro.com

for the safety data sheet:

1.4. Emergency telephone number(00 34) 935.796.677Availability:(8:00 AM - 17:00 PM EST)Other comments:No information available.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

CLP Classification table

Classification according to Regulation (EC) 1272/2008

Hazard Classes/ categories Hazard statement(s) M-Factors

Aquatic Chronic 1 H302 No information available.

Aquatic Acute 1 H318 Eye Dam. 1 H410

Acute Tox. 4

DSD/DPD Classification table

Classification according to directives 67/548/EEC and 1999/45/EC

Categories of danger: Risk Phrases

Xn,N: R22-41-50/53

Harmful if swallowed. Risk of serious damage to eyes. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Other information: The full text of the R-phrases, indications of danger (H) and additional

indications of danger (EUH) can be found in section 16,

Most important adverse physicochemical, human health and environmental effects

Adverse physicochemical effects:

No information available.

Adverse human health effects: Harmful if swallowed. Risk of serious damage to eyes.

Adverse environmental effects: Very toxic to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.

2.2. Label elements

Labelling according to directives 67/548/EEC and 1999/45/EC

Symbol(s) of danger - Indication(s) of danger N: Dangerous for the environment

Xn: Harmful





Risk Phrases

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.

Safety Phrases

S 2: Keep out of the reach of children.

S13: Keep away from food, drink and animal feedingstuffs.





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S22: Do not breathe dust.S24: Avoid contact with skin.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36: Wear suitable protective clothing.

S37: Wear suitable gloves.S39: Wear eye/face protection.

S45: In case of accident or if you feel unwell seek medical advice immediately (show the label where possible).

Authorisation REACH number(s): Not applicable

2.3. Other hazards

Compliance with PBT/vPvB criteria: There are no risks in accordance with Regulation 1999/45 of the EC or not classified as

PBT or vPvB

Other hazards which do not result in

The substance/mixture is not classified as SVHC.

classification:

2.4. Phrases for special risks. : No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical name	Content (%)	EC number	CAS Number	Classification Regulation (EC) 1272/2008	Hazard statement(s)*	Classification (Directive 67/548/EEC)*
COPPER OXYCHLORIDE TECHNICAL	68.38 – 70.17	215-572-9	1332-40-7	Aquatic Acute 1;Acute Tox. 4	H302;H332;H400	N,Xn: R20/22-50
METALAXYL TECHNICAL	8.4	260-979-7	57837-19-1	Aquatic Chronic 3;Acute Tox. 4;Skin Sens. 1	H302;H317;H412	Xn: R22-43-52/53

^(*) See the full text of the hazard statements and risk phrases in section 16.

Composition (%): Copper Oxychloride (40% exp. as Cu w/w)

Metalaxyl (8% exp. as Metalaxyl technical w/w)

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 immediately.

En case of ingestion:: Check breathing

If necessary artificial respiration.

If swallowed, gastric lavage may be necessary.

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

Treat symptomatically.

Recommendations for first aid responders: Use suitable protective clothing

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

Most important symptoms and effects, both

Not determinated

acute and delayed:



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

Indication of any immediate medical attention and special treatment needed:

Not determinated

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Non inflammable product.

Only the container and packing may ignite

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 mixtureHazardous 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 breath the powder

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. Workspaces Use with adequate

ventilation and safety showers presence next.

Measures to prevent aerosol and dust

generation:

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:

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:



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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No DNEL data.

Not available Information on monitoring procedures: Currently recommended monitoring Not available

methods:

Specific monitoring standards: No information available.

There are not data of PNEC

Control banding approach ("control Good industrial hygiene practices

banding"):

8.2. Exposure controls

Appropriate engineering controls: Appropriate exposure control measures related to the identified use(s) of the

substance or mixture:

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

exposure:

Technical measures to prevent exposure: No information available. Individual protection measures, such as personal protective equipment

Eve/Face protection: Avoid contact.

safety glasses with side-shields

Hand Protection: Wear gloves. (Dexter CE 95 0072 4121 according to EEC/89/686). After use, wash with soap

and water.

Others: Mittens, boots or mono depending on the hazards associated with the substance or mixture

and the possibilities of contact.

Respiratory Protection: In case of insufficient ventilation use respiratory equipment while preparing the mixture.

(Affinity FR FFP1 D - CE 0121 according to EN 149:2001)

Do not breathe dust. full-face mask

Thermal hazards: Not available

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.

Environmental exposure controls

Appropriate exposure control measures

related to the identified use(s) of the

substance or mixture:

No information available.

Structural measures to prevent exposure:

Organisational measures to prevent

exposure:

No information available.

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: powder light green Odour: odourless Odour threshold: No data available pH-value at 1%: 6 - 8 (20 °C) Melting point/freezing point: No data available No data available Initial boiling point and boiling range: >61 °C Flash point:

Evaporation Rate: No data available Flammability (solid, gas): Non-flammable Upper/lower flammability or explosive limits: No data available No data available Vapour pressure: Vapour density: No data available 0.75 - 0.9 g/ml (20 °C) Relative density:

Solubility (is): Water solubility: Copper oxychloride: insoluble.

Metalaxyl: 8.4 g/l (22ºC).

Fat solubility: Copper oxychloride: Insoluble.



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Metalaxyl: Ethanol: 400 g/l (25°C).

Acetone: 450 g/l (25°C). Toluene: 340 g/l (25°C). N-octanol: 68 g/l (25°C). N-hexane: 11 g/l (25°C).

Partition coefficient: n-octanol/water:

Auto-ignition temperature:

Decomposition temperature:

Viscosity:

No data available

Non-explosive

Oxidising properties:

No data available

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9.2. Other information

Other information: No data available

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: Wet and alkaline environments.

High temperatures

10.5. Incompatible materials

Incompatible materials: Acids and ammonium salts partially dissolve the product

10.6. Hazardous decomposition products

Hazardous decomposition products: HCL, sulphur, oxides of nitrogen and sulphur chlorides. 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	
		COPPER OXYCHLORIDE TECHNICAL	
	Ingestion: LD50	950 - 1862 mg/Kg ·Rat	
Acute toxicity	Inhalation: LC50	2.83 mg/l ·Rat/4h	
	Skin: LD50	>2000 mg/Kg·Rat	
Irritation:		Skin: Non irritant (rabbit)	
		Eye: Slight eye irritation (rabbit)	
Corrosivity:		No information available.	
Sensitisation:		Non sensitizer (Guinea pig)	
Repeated dose toxicity:		No information available.	
Carcinogenicity:		Not applicable. Copper is widely present in all food, feedingstuffs and water.	
Mutagenicity:		Not applicable. Copper is widely present in all food, feedingstuffs and water.	
Toxicity for reproduction:		Not applicable. Copper is widely present in all food, feedingstuffs and water.	

11.1.2. Mixtures		Results	
		METALAXYL TECHNICAL	
Acute toxicity	Ingestion: LD50	Rat > 633 mg/kg	
	Inhalation: LC50	Rat, 4h > 3.6 mg/l air	
	Skin: LD50	Rat > 3100 mg/kg	
Irritation:		Skin: Contact with the skin (and oral mucosa) may cause irritation.	
		Eyes: Contact with eyes may cause irritation.	
Corrosivity:		No information available.	
Sensitisation:		May cause sensitization by skin contact	
Repeated dose toxicity:		No information available.	
Carcinogenicity:		Not carcinogenic.	
Mutagenicity:		Not mutagenic.	
Toxicity for reproduction:		Not teratogenic.	



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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:
Other information:

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

No data available

No information available.

No information available.

No information available.

SECTION 12: Ecological information

12.1. Toxicity

Acute toxicity (short-term)

Fishes: Copper Oxychloride technical: EC50/ O.Mykiss / 96 h >43.8 mg/l

Metalaxil: CL50 / Lepomis macrochirus / 96 h > 100 mg/l

Crustaceans: No information available.
Algaes: No information available.
Other aquatic plants: No information available.
Micro-organisms: No information available.
Macro-organisms: No information available.

Environmental toxicity

Birds: No information available.

Bees: No information available.

Plants: No information available.

Chronic (long-term) toxicity

Fish:

Crustaceans:

Algae:

Other aquatic plants:

Microorganisms:

Macroorganisms:

No information available.

Environmental toxicity

Birds: No information available.

Bees: No information available.

Plants: No information available.

12.2. Degradability

Abiotic Degradation: No information available. Physical- and photo-chemical elimination: No information available. Biodegradation: No information available.

Other processes: - Copper Oxychloride technical: Copper is strongly absorbed by soils, and it does not

degrade.

- Metalaxyl: photolytically stable.

12.3. Bioaccumulative potential

Partition coefficient n-octanol /water (Kow):

Bioconcentration factor (BCF):

No information available.

- Copper Oxychloride technical: Copper does not bioaccumulate. Organisms excrete copper

naturally.

- Metalaxyl: not bioaccumulate in mammals.

12.4. Mobility in soil

Known or predicted distribution to environmental compartments:

- Copper Oxychloride technical: 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. - Metalaxyl: It has a mobility in soil medium to high. The main metabolite, metalaxyl acid, is

more mobile in the soil than the active substance.

Surface tension:

Adsorption/Desorption:

No information available.

No information available.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment: **12.6. Other adverse effects**

Other adverse effects:

Environmental fate:

No information available.

No information available.

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



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Photochemical ozone creation potential: No information available. Ozone depletion potential: No information available. Endocrine disrupting potential: No information available. No information available. Global warming potential:

12.7. Other information

Other information:

12.8. Ecotoxicity

Ecotoxicity:

No information available.

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

environment.

12.9. Toxicological effects

Toxicological effects: No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropiate methods of waste treatment of both substance or mixtures:

Appropiate 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 provisiones

relating to waste:

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

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

incineration or recycling. No information available.

No information available.

No information available.

No information available. No information available.

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

SECTION 14: Transport information

ADR/RID

UN Number:

Proper Shipping Name:

OXYCHLORIDE TECHNICAL)

Class:

UN3077

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains

ADR/RID Classification: Packing group:

Label:

Special Provisions:

Limited Quantities:

Packing Instructions:

Special Packing Provisions::

Hazard identification number: Kemler Code:

IMDG

Marine Pollutant: Yes **UN Number:** Packing group:

Proper Shipping Name:

OXYCHLORIDE TECHNICAL) Class:

Label:

EmS Guide:

M7

Ш

274,335,601

5 kg

P002,IBC08,LP02,R001

VV1 90 000

UN3077

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains

F-A, S-F



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IATA

UN Number: UN3077

Packing group:

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains

OXYCHLORIDE TECHNICAL)

Class: -Label: -

SECTION 15: Regulatory information

EU regulations

Phytosanitary Registration Number.: 2077

Use authorizations: No information available.

Use restrictions: The substance has no restriction of use.

Other EU regulations: No information available. Information on emission of volatile organic No information available.

compounds (VOC):

No information available.

No information available.

National regulations:

15.2. Chemical safety assessment Chemical safety assessment:

No information available.

SECTION 16: Other information

Labelling according to Regulation (EC) 1272/2008







Signal word

Danger

Hazard statement(s)

H302 Harmful if swallowed.H318 Causes serious eye damage.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P270 Do no eat, drink or smoke when using this product.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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

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.

P330 Rinse mouth. P391 Collect spillage.

P501 Dispose of contents/containers in accordance with local/regional/national/international regulations

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

Hazard statement(s)

H302: Harmful if swallowed.

H317: May cause an allergic skin reaction.

H332: Harmful if inhaled.H400: Very toxic to aquatic life.

H412: Harmful to aquatic life with long lasting effects.

Reason for revision:N/A

Changes to the previous version: Format adaptation to the REACH Regulation amendment, the Regulation (EC) 453/2010.



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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%

Chemicals Agency (ECHA).

No information available.

NOEL: Non-observed effect level

NOAEL: Non observed adverse effect level

NOAEC: Non observed adverse effect concentration

SVHC: Substances of Very High Concern

REACH Registraton dossier and database of registered substances on the European

Key literature references and sources for data:

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:

Relevant R phrases, hazard statements, safety phrases and/or precautionary statements:

Risk Phrases

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.

Safety Phrases

Keep out of the reach of children. S 2:

S13: Keep away from food, drink and animal feedingstuffs.

S22: Do not breathe dust. S24: Avoid contact with skin.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek

medical advice.

Wear suitable protective clothing. S36:

S37: Wear suitable gloves. S39: Wear eye/face protection.

S45: In case of accident or if you feel unwell seek medical advice immediately (show

the label where possible).

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.