



According to Appendix D of Hazard Communication Standard (HCS), 29 CFR 1910.1200 and EPA Pesticide Registration (PR) Notice 2012-1

35484-4_COH40WG_US_Americop 40 DF

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Americop 40 DF

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

1.a. Product identifier

Trade Name: Americop 40 DF

Other means of identification: Cupric hydroxide; Copper (II) Hydroxide

1.b. Recommended use of the chemical and restrictions on use

Identified uses: Fungicide and Bactericide for crop protection under EPA Reg. No. 35484-4. Uses advised against: Do not use for other purposes other than those described on the label.

1.c. Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

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 fsegur@iqvagro.com

responsible for the safety data sheet:

1.d. Emergency phone number

National Pesticides Information Center (NPIC) 1-800-858-7379 Availability: Mo-Fri 8:00 a.m to 12:00 p.m Pacific time

Poison Help Line: 1-800-222-1222 Availability: 24 h, 7 days/week

Other comments: No information available.

SECTION 2: Hazards identification

2.a. Classification of the substance or mixture

Classification according Hazard Communication Standard (HCS), 29 CFR 1910.1200, paragraph D

Hazard Classes/ categories Acute Tox. Oral; Cat.3

Acute Tox. Dermal; Cat.4 Acute Tox. Inhalation; Cat.4

2.b. Signal word, hazard statement(s), symbol(s) and precautionary statement(s)

Signal word: DANGER

Hazard statement(s): Toxic if swallowed

Harmful in contact with skin

Harmful if inhaled

Symbol(s):

Precautionary statement(s): Wash hands thoroughly after handling.

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

Avoid breathing dust and spray.

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

If on skin: Wash with plenty of soap and water.

If inhaled: Remove person to fresh air and keep comfortable for breathing. If swallowed: Call a poison center or doctor/physician if you feel unwell.

Rinse mouth.

Wash contaminated clothing before reuse.

Collect spillage.

Dispose of contents/container to an authorised hazardous waste collection site in accordance with local/regional/national/international regulations (to be specified).

Use only outdoors or in a well-ventilated area.

Most important adverse physicochemical, human health and environmental effects

Adverse physicochemical effects : No information available.

Adverse human health effects: Harmful by inhalation. Toxic if swallowed. Harmful in contact with skin.

Adverse environmental effects: Aquatic Acute tox. Hazard Cat. 2: Toxic to aquatic life with long lasting effects.

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.



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classification:

SECTION 3: Composition/information on ingredients

<u>Substance</u>

Chemical name: Cupric Hydroxide; Copper (II) Hydroxide

Common names and synonims:

CAS number:

Impurities and stabilizing additives which are

Copper Hydroxide
20427-59-2

None

themselves classified and which contribute to the classification of the substance:

<u>Mixture</u>

Concentration: Copper Hydroxide 61.5% w/w (for a technical product having 60.8% w/w Cu content)

Metallic Copper Equivalent: 40% w/w

SECTION 4: First aid measures

4.a. Description of first aid measures

General notes: If symptoms persist, call a physician.

In case of inhalation: Move person to fresh air.

If person is not breathing, call 911 or an ambulance, then give artificial respiration,

preferably mouth-to-mouth if possible.

Call a poison control center or doctor for further treatment advice.

In case of contact with skin: Take off contaminated clothing.

Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

In case of contact with eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact

lenses, if present, after the first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice.

En case of ingestion:: Call a poison control center or doctor immediately for treatment advice.

Have person sip a glass of water if able to swallow.

Do not induce vomiting unless told to by a poison control center or doctor.

Do not give anything to an unconscious person.

Recommendations for first aid responders: Use suitable protective clothing. Wash hands before eating, drinking, chewing gum, using

tobacco, or using the toilet. Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash

thoroughly and change into clean clothing.

Note to Physician: Probable mucosal damage may contraindicate the use of gastric

lavage.

4.b. 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.c. Indication of any immediate medical attention and special treatment needed

Indication of any immediate medical attention in case of ingestion or if symptoms persist.

attention and special treatment needed:

Note to Physician: Probable mucosal damage may contraindicate the use of gastric

lavage.

Note to Physician: Check if victim is a copper intolerant individual.

See Section 11 for toxicological information.

SECTION 5: Firefighting measures

5.a Extinguishing media

Suitable extinguishing media: Use dry chemical or CO2.

Unsuitable extinguishing media: Water jet from high flow (due to risk of contamination)..

5.b. Special hazards arising from the substance or mixture

Hazardous combustion products: Above 150°F, Copper hydroxide decomposes to Coppper (II) oxide and water.

Other specific hazards: Not known.

5.c. Special protective equipment and precautions for fire-fighters

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

Advice for fire-fighters: Dike area to prevent runoff and collect contaminated fire-fighting water separately.

Contaminated water must not enter the sewage system.



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SECTION 6: Accidental release measures

6.a. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Do not breathe the powder.

Avoid contact with mouth, eyes and skin.

People, children and animals must be kept away from the spillage area.

Wear suitable protective clothing and gloves to prevent contamination. For emergency responders:

Read Section 8.b.

Environmental precautions: Do not apply directly to water, to areas where surface water is present, or to intertidal

areas below the mean high water mark. Do not contaminate water when disposing of

equipment washwater or rinsate. Never use water to clean spills.

6.b. Methods and material for containment and cleaning up

Cover the product with sawdust, sand or dry earth. Containment:

Collect contaminated absorbent for disposal.

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 contaminated area with water.

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

See Section 8.c. for personal protection.

See Section 13 for waste treatment and disposal.

SECTION 7: Handling and storage

7.a. Precautions for safe handling

Containment and measures to prevent fire: Handle with care.

Use with adequate ventilation.

Avoid generating dust.

Measures to prevent aerosol and dust

generation:

The job and the methodology should be organized in such a way that direct contact with

the product is minimized or prevented.

Avoid spills and leaks.

Measures to reduce the release of the

substance or mixture to the environment:

The product is for application in the environment for crop protection. To reduce its release, strickly prepare the recommended quantity of spray and do not overdose.

Avoid spills and leaks. If produced, do not use water neither to collect nor to clean them.

See Section 7.

Advice on general occupational hygiene: Handle with care. Avoid contact. When opening, closing or handling open packages, or

pouring product, wear goggles to prevent dusting into eyes

Use with adequate ventilation and install safety showers and/or eyewashers nearby.

Wear protective clothing. See section 8.b. for personal protection.

Avoid generating dust.

Wash hands thoroughly after use and specially before eating, drinking, smoking or using

the toilet.

7.b. 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: Nonrefillable container. Do not reuse or refill this bag.

N/A

N/A

Completely empty bag into application equipment by shaking and tapping sides and

bottom to loosen clinging particles.

When completely empty, offer for recycling if available, or dispose of container in a

sanitary landfill or by burning. If burned, stay out of smoke

Requirements for storage rooms and vessels: Keep container closed after use. Avoid high temperatures and frost.

SECTION 8: Exposure controls/personal protection

8.a. OSHA permissible exposure limit (PEL), American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV), and any other exposure limit used or recommended by the chemical manufacturer, importer, or employer preparing the safety data sheet, where available No DNEL data.

Information on monitoring procedures: Currently recommended monitoring

methods:

Specific monitoring standards: No information available.



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There are not data of PNEC

Control banding approach ("control

banding"):

Good industrial hygiene practices.

8.b. Appropriate engineering controls

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

substance or mixture:

Structural measures to prevent exposure: N/A
Organisational measures to prevent N/A

exposure:

Technical measures to prevent exposure: N/A

8.c.Individual protection measures, such as personal protective equipment

Eye/Face protection: Avoid contact.

Safety glasses with side-shields.

Install safety showers and/or eyewashers nearby.

Hand Protection: Wear chemical resistant gloves. (Dexter CE 95 0072 4121 according to EEC/89/686).

After use, wash with soap and water.

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.

Skin Protection Wear suitable clothing to avoid repeated or delayed contact with skin: long-sleeved shirt,

long pants and shoes plus socks. Thoroughly wash working clothes daily. Wash with soap and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent material that have been drenched or heavily contaminated with the

product's concentrate.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance: Light gree-bluish granules

Odour: Odourless
Odour threshold: N/A
pH-value at 1%: 8 - 10 (20 °C)
Melting point/freezing point: N/A

Initial boiling point and boiling range: N/A
Flash point: >61 °C

Evaporation Pate: Not an

Evaporation Rate: Not appplicable. Flammability (solid, gas): Not flammable.

Upper/lower flammability or explosive limits: N/A Vapour pressure: N/A Vapour density: N/A

Relative density: 065-0.85 g/cm³ (20 °C)
Solubility (ies): in water: Practically insoluble in lipids: Practically insoluble

Partition coefficient: n-octanol/water: N/A
Auto-ignition temperature: >600 °C
Decomposition temperature: starts at 150° F

Viscosity: N/A

Explosive properties: Not explosive

SECTION 10: Stability and reactivity

10.a. Reactivity

Reactivity: N/A

10.b. Chemical stability

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

10.c. Possibility of hazardous reactions



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Possibility of hazardous reactions:

10.d. Conditions to Avoid Conditions to Avoid:

Moisture and temperatures above 40° C.

N/A

10.e. Incompatible materials Incompatible materials:

Acids, sulphur and ammonium salts partially dissolve the product.

10.f. Hazardous decomposition products

Hazardous decomposition products:

Copper hydroxide decomposes at temperatures above 70 °F producing copper (II) oxide,. It

does not decompose if stored and applied as directed.

SECTION 11: Toxicological information					
11.a. Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact)		Eye and skin contact.			
11.b. Symptoms related to the physical,					
chemical and toxicological					
characteristics					
Symptoms related to physical characteristics		Not known.			
Symptoms related to chemical characteristics		Repeated exposure to large quantities of the product's dust or spray may result in: o irritation of eyes and of the upper respiratory tract o metallic taste			
Symptoms related to toxicological characteristics		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.			
11 c Delayed and immediate offerte and					
11.c. Delayed and immediate effects and also chronic effects from short- and long-term exposure		Probable mucosal damage. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Repeated exposure to large quantities of the product's dust or spray may result in irritation of eyes and of the upper respiratory tract If ingested, anemia and liver and kidney damage may appear.			
11.d. Numerical measures of toxicity		Results: COPPER HYDROXIDE 40% (as Cu) WG			
Acute toxicity	Ingestion: LD50	<300 mg/Kg bw < LD50 < 500 mg/Kg bw ·Rat			
	Inhalation: LC50	1.043 mg/l ·Rat/4h			
	Skin: LD50	>2000 mg/Kg bw·Rat			
Irritation:		Skin: No oedema. No erythema. (rabbit) Eye: No effects (rabbit)			
Sensitisation:		Not sensitizer (Guinea pig)			
11.e. Whether the hazardous chemical is listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or has been found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition), or by OSHA:		N/A			

Information on likely routes of exposure: See section 8.c

SECTION 12: Ecological information

12.a. Toxicity

Acute toxicity (short-term)

Fishes:

LC50/_{O.mykiss} / 96 h = 0.01 mg Cu/l

Chronic (long-term) toxicity

Crustaceans: 21 d NOEC _{aquatic invertebrates (D.magna)} = 0.046 mg Cu/I (total)

12.b. Degradability Copper does not degrade and, furthemore, it is strongly absorbed by soils and has an

extremely low vapour pressure.

12.c. Bioaccumulative potential

Bioconcentration factor (BCF): **12.d. Mobility in soil**

Known or predicted distribution to environmental compartments:

 $\label{lem:copper_cop$

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: the less organic matter and the more acid, higher availability. Through the strong bounding to



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various soil components, the leaching out of copper is extremely low. Mobility in soil towards deeper layers is therefore very low, however, its potential for runoff may last for several months or more after application. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product.

12.e. Other adverse effects

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

environment

Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas.

Other adverse effects: No other ecological adverse effects are reported for Copper Hydroxide, including

photochemical ozone creation potential, ozone depletion potential, endocrine disrupting

potential or global warming potential.

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:

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.

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

SECTION 14: Transport information

ADR/RID

UN Number: UN3077

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

TECHNICAL)

Class:



ADR/RID Classification: M7 Packing group: Ш Label: 9

274,335,601 **Special Provisions:**

Limited Quantities: 5 kg

P002,IBC08,LP02,R001 **Packing Instructions:**

Special Packing Provisions:: VV1 Hazard identification number: 90 Kemler Code: 000

IMDG

Marine Pollutant: Yes **UN Number:** 3077 Packing group: Ш

Proper Shipping Name: Environmentally hazardous substance, solid, n.o.s.

(Copper hydroxide)

Class: 9 Label: Ш EmS Guide: F-A, S-F

IATA

UN3077 **UN Number:**

Packing group:

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

OXYCHLORIDE TECHNICAL)

Class:



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Label:

DOT Not regulated by **DOT**/49 **CFR** unless shipped in bulk package or by water

SECTION 15: Regulatory information

EPA Registration Number.: 35484-4

Use authorizations: Fungicide and bactericide for crop protection.

Use restrictions:

Other regulations:

Information on emission of volatile organic

Not available.

compounds (VOC):

National regulations:

FIFRA Information for the SDS: This Chemical is a fungicide and bactericide product for organic production registered by

the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide

chemicals.

Following is the hazard information as required on the pesticide label:

WARNING

May be fatal if swallowed Harmful if inhaled

Harmful if absorbed through skin

This pesticide is toxic to fish and aquatic invertebrates and may contaminate water through

runoff.

15.2. Chemical safety assessment

Chemical safety assessment: Not available.

SECTIO	N 16:	Other i	inform	nation

Reason for revision: N/A
Changes to the previous version: N/A

Abbreviations and acronyms: a.i. Active ingredient

ACGIH American Conference of Governmental Industrial Hygienists

ADR European Agreement Concerning the International Carriage of Dangerous

Goods by Road

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

DNEL Derived non-effect level
DOT Department of Transportation
EHS Extremely Hazardous Substances
EPA Environmental Protection Agency

EPCRA Emergency Planning and Community Right-to-Know Act
FIFRA Federal Insecticide, Fungicide, and Rodenticide Act
IARC International Agency for Research on Cancer
IATA International Air Transport Association

IMDG International Maritime Dangerous Goods N/A Not available

NTP National Toxicology Program

OSHA Occupational Safety and Health Agency

RID International Rule for Transport of Dangerous Substances by Railway

SARA Superfund Amendments and Reauthorization Act

TSCA Toxic Substances Control Act LC50 Lethal concentration 50%

LD50 Lethal dose 50%

NOEC No Observed Effect Concentration

NOEL Non-observed effect level
NOAEL Non observed adverse effect level

NOAEC Non observed adverse effect concentration



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OECD Organisation for Economic Co-operation and Development

OEL Occupational Exposure Limit

PBT Persistent, Bioaccumulative and Toxic
PNEC Predicted non-effect concentration
SVHC Substances of Very High Concern
TRGS Real Time Gross Settlement

SDS Safety Data Sheet

vPvB Very Persistent and very Bioaccumulative

Key literature references and sources for data:

Other information:

REACH Registration dossier and database of registered substances on the European Chemicals Agency (ECHA).

Chemicals Agency (ECHA

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.