



MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF THE SUBSTANCE AND COMPANY

Company Address: The National Company For Agrochemicals & Investmet
Head office: 473 El_horreya St., Bolkly Alexandria-Egypt
Tel.: (203) 5440640/1 Fax.: (203) 5411150

Product Name: COPPRINE 85%WP (COPPER OXYCHLORIDE).

Formulation Type: Wettable Powder

CAS RN: 1332-40-7

Chemical Name: Copper Oxychloride

Chemical family: Metallic copper

SECTION 2 - COMPOSITION/ INFORMATION ON INGREDIENTS

Component	Percentage	CAS RN
Copper Oxychloride	85% (equivalent to 50% of Metallic copper)	1332-40-7
Inert Ingredients	15%	-----

SECTION 3 - IDENTIFICATION OF HAZARDS

Emergency Overview:

Symptoms of acute exposure:

- Causes mild eye and non skin irritation. Allergic skin reactions are possible.
- Avoid breathing product vapors or spray mist.
- Avoid contact with eyes, skin or clothing.
- Keep out of reach of children.

Hazardous decomposition products:

Can decompose at high temperatures forming toxic gases.

SECTION 4- FIRST AID MEASURES

IF INHALED: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

IF ON SKIN: Wash with plenty of soap and water. Get medical attention.

IF SWALLOWED: Do not induce vomiting. Call a physician immediately.

IF IN EYES: Flush eyes with plenty of water for 15 minutes. Call a physician.

ANTIDOTE: Treat symptomatically based on judgment of the attending physician in response to reactions of the patient.



SECTION 5 - FIRE FIGHTING MEASURES

Extinguishing media

Recommended: Water, foam, dry chemical, carbon dioxide (CO₂)

Unusual fire and explosion hazards

Minimize use of water to prevent environmental contamination.

Environmental precautions .

Hazardous products of combustion

Carbon monoxide (CO), nitrogen oxides (NO_x), hydrogen chloride (HCl) .

Fire fighting equipment

Self-contained breathing apparatus.

Equipment should be thoroughly decontaminated after use.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Spillage or Leak Disposal Procedures:

Shut off or remove any sources of ignition. DO NOT smoke. Avoid contact with the spilled material or contaminated surfaces. When dealing with spills wear personal protective (clothing and equipment). Keep people and animals away and upwind. Prevent spilled material from entering drains or watercourses. Contain spill - remove liquid mechanically (explosion proof or hand pump) or absorb with earth, sand, clay, or other absorbent material. Collect and store in properly labelled, loosely covered drums for safe disposal. Deal with all spillages immediately. If contamination of drains, streams, watercourses, etc. is unavoidable, warn the local water authority.

Waste Disposal Methods:

When returnable container is empty or contents no longer required return it to the point of purchase. For non-returnable containers, triple or (preferably) pressures rinse them before disposal. Add rinsing to spray tank. Do not dispose of undiluted chemicals onsite. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush, or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt. Dispose of waste product via a licensed disposal contractor to an approved landfill.



SECTION 7 - HANDLING AND STORAGE

Handling

Avoid contact with eyes, skin and clothing.

Avoid breathing vapour or mist.

Wash hands thoroughly after handling or contact.

When using do not eat, drink or smoke.

Thoroughly clean equipment after use.

Do not contaminate drains, sewers and water ways when disposing of equipment rinse water.

Emptied containers retain vapour and product residue.

FOLLOW LABELLED WARNINGS EVEN AFTER CONTAINER IS EMPTIED.

Storage

Keep out of reach of children.

Keep away from food, drink and animal feed.

Keep only in the original container.

Keep container tightly closed in a cool, well-ventilated place.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

ENGINEERING CONTROLS: Control process conditions to avoid contact. Use only in well ventilated areas.

PERSONAL PROTECTIVE EQUIPMENT:

EYE PROTECTION: Wear Safety Goggles

CLOTHING: Wear cotton overalls buttoned to the neck and wrist and a washable hat.

GLOVES: Wear elbow length PVC gloves.

RESPIRATOR: If inhalation is likely, wear a respirator with an organic vapour cartridge.

Other: After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves, goggles or face shield, respirator face piece and contaminated clothing.

USER SAFETY RECOMMENDATIONS:

1. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

2. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

3. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing



SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL DESCRIPTION:	Fine pale green powder
ODOR:	Odorless
MELTING POINT:	Not applicable
DENSITY:	2 gm/cm ³
BULK DENSITY:	0.416 gm/cm ³
ALKALINITY :	0.29 % as NaOH
WETTABILITY:	49.42 ± 1.53 sec.

SECTION 10 - STABILITY AND REACTIVITY

Stability:	Very stable in neutral media.
Conditions to Avoid:	Not known.
Incompatibility With Other Materials:	Strong alkalis, amines and oxidizers.
Hazardous Decomposition Products:	Can decompose at high temperatures forming toxic gases
Hazardous Polymerization:	Will not occur.

SECTION 11 - TOXICOLOGICAL INFORMATION

ACUTE TOXICITY : This product is slightly hazardous during normal use (WHO Class III)

ORAL:	LD ₅₀ for Rats: 2364 mg/kg.
DERMAL:	LD ₅₀ for Rats: > 2000 mg/kg
INHALATION:	LC ₅₀ (4h) for Rats > 30 mg/l air.
EYE IRRITATION (RABBITS)	- Mild eye irritant (rabbits).
SKIN IRRITATION (RABBITS)	- Not skin irritant (rabbits).
SENSITIZATION (GUINEA PIG)	- Non-sensitizer

SECTION 12 - ECOLOGICAL INFORMATION

BIRDS:	LC ₅₀ for bobwhite quail > 10000 ppm
FISH TOXICITY:	LC ₅₀ (48 h) for carp 2.2 mg/l.
DAPHNIA:	LC ₅₀ (24 h) 3.5 mg/l.
BEES TOXICITY:	Not toxic to bees. LD ₅₀ > 11 mg/bee.



SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE: Pesticide wastes are toxic and hazardous. Dispose of in accordance with applicable federal, state and local laws and regulations. Do not discharge or pour into soil, drainage system or bodies of water.

CONTAINER: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning (plastic containers). If burned, stay out of smoke.

SECTION 14 - TRANSPORT INFORMATION

The data provided in this section is for information only. Please apply the appropriate regulations to properly

DOT SHIPPING DESCRIPTION: Environmentally Hazardous Substance, Solid, N.O.S., 9,
UN 3077, PG III.

UN NUMBER: 3077

DOT HAZARD CLASS: 9

DOT PACKING GROUP: PG III

SECTION 15- REGULATORY INFORMATION

WHO TOXICITY CLASSIFICATION

III: Product Slightly hazardous in normal use

SECTION 16 - OTHER INFORMATION

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