



**MATERIAL SAFETY DATA SHEET**  
**ACIOCIDÉ 505 F**

**IDENTIFICATION OF THE SUPPLIER:**

**AGRO CHEMICALS INDUSTRIES LTD**  
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**IDENTIFICATION OF PRODUCT:**

**Product Name:** Aciocide 505 F.  
**Active ingredient:** Copper hydroxide  
**Chemical Name:** Copper hydroxide (Cu(OH)<sub>2</sub>)  
**Chemical formula:** CuH<sub>2</sub>O<sub>2</sub>  
**Molecular weight:** 97.6

**COMPOSITION/ INFORMATION:**

<i>Active ingredient</i>	CAS#	% w/v
Copper Hydroxide	[20427-59-2]	37.5% w/v
<i>Inert ingredient</i>		
Dispersing and wetting agent		6% w/v
Water		up to 100% w/v.

**HAZARDS IDENTIFICATION:**

This product is classified as hazardous  
This product is harmful if inhaled and if swallowed.



## FIRST AID PROCEDURE:

**Ingestion:** Give two glasses of water or milk, don't give alcohol, and call a physician immediately

**Eye Contact:** Immediately, Flush with copious amounts of water for at least 15 minute while holding eyelids apart. Washing within one minute is essential to achieve maximum effectiveness. Get immediate medical attention after flushing.

**Skin Contact:** Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before reuse. Discard shoes and leather goods. If irritation should develop, get medical attention.

**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Consult a physician.

**Advice to Doctor:** Treat symptomatically. Note the nature of this product.

## FIRE FIGHTING MEASURES:

**Fire and Explosion Hazards:** There is no risk of an explosion from this product under normal circumstances if it is involved in a fire.

Fire decomposition products from this product may be toxic if inhaled.

Take appropriate protective measures.

**Extinguishing Media:** Not Combustible. Use extinguishing media suited to burning materials.

**Fire Fighting:** If a significant quantity of this product is involved in a fire, call the fire brigade.

## PHYSICAL AND CHEMICAL CHARACTERISTIC:

**Colour:** Blue- green.

**Physical state:** liquid .

**Odour:** Slight odor.

**PH:** 6.5-7.5 (1% suspension) .

**Flammability:** Non- flammable

**Explosivity:** Not explosive



## ACCIDENTAL RELEASE MEASURE:

**Accidental release:** Minor spills do not normally need any special cleanup measures. In the event of a major spill, prevent spillage from entering drains or water courses. As a minimum, wear overalls, goggles and gloves. Suitable materials for protective clothing include rubber, PVC. Eye/face protective equipment should comprise as minimum, protective glasses and, preferably, goggles. If there is a significant chance that vapours or mists are likely to build up in the cleanup area, we recommend that you use a respirator. Stop leak if safe to do so, and contain spill. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage, and dispose of promptly. Recycle containers wherever possible after careful cleaning. After spills, wash area, preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. This material may be suitable for approved landfill. Ensure legality of disposal by consulting regulations prior to disposal. Full details regarding disposal of used containers, spillage and unused material may be found on the label. If there is any conflict between this MSDS and the label, instructions on the label prevail. Dispose of only in accord with all regulations. Advise laundry of nature of contamination when sending contaminated clothing to laundry.

## HANDLING AND STORAGE:

**Handling:** Keep exposure to this product to a minimum, and minimize the quantities kept in work areas. Check Section personal protective measures of this MSDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling in order to minimize risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section Stability and Reactivity.

**Storage:** Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight. Make sure that the product does not come into contact with substances listed under "Materials to avoid" in Section Stability and Reactivity.  
Check packaging - there may be further storage instructions on the label.

## STABILITY AND REACTIVITY:

**Reactivity:** This product is unlikely to react or decompose under normal storage conditions.

**Conditions to Avoid:** Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight.

**Incompatibilities:** Avoid acids

**Fire Decomposition:** Only small quantities of decomposition products are expected from this product at temperatures normally achieved in a fire  
- Chlorides, copper oxide

**Polymerisation:** This product is unlikely to undergo polymerisation processes.

## TOXICOLOGICAL INFORMATION:

(for active only)

**Oral LD50 for rat :** 489 mg/kg (tech.)

**Dermal LD50 for rabbits:** > 3160 mg/kg

**Inhalation LC50 for rat:** > 2 mg/l air

**Skin irritant:** Severely irritating

**Eye irritant:** Corrosive to eyes

## ECOLOGICAL INFORMATION:

### Copper hydroxide:

High concentrations of this type of copper are toxic to aquatic organisms and may cause a significant decrease in populations of aquatic invertebrates, plants, and fish.

**Birds** Acute oral LD50 for bobwhite quail 3400, mallard ducks >5000 mg/kg.  
Dietary LD50 (8 d) for bobwhite quail and mallard ducks >10 000 ppm.

**Fish** LC50 (24 h) for rainbow trout 0.08 mg/l; (96 h) for fathead minnow 0.023, bluegill sunfish >180 mg/l.

**Daphnia** LC50 6.5 ppb.

**Bees** Non-toxic to honeybees.

### Environmental fate:

Copper is a basic chemical element and does not dissipate in the soil. Soluble copper ions in the soil water are rapidly complexed by organic matter, precipitated as hydroxides, or insolubilised as precipitates with sulfides, hydroxides, carbonates, or phosphates.





## REGULATORY INFORMATION AND DISPOSAL PROCEDURES:

**Spill/leak clean-up procedures:** Sweep, scoop, or pick up spilled material. Ventilate area. Avoid dusting. Prevent material from entering sewers. Dike if necessary. Package for reclamation or material safety data sheet.

**Disposal method:** Dispose in accordance with local environmental and regulatory Requirements.

**Superfund reportable quantity(rq):** Not regulated.

**Hazardous waste no.:** Not regulated.

## TRANSPORT INFORMATION

### International transport regulations

**ENVIROMENTALLY HAZARDOUS SUBSTANCE, LIQUID, n.o.s\***

**UN number: 3082**

**Class or division: 9**

**Hazard entries: 9**

**Hazard label: Miscellaneous**

**PG: III**

**Passenger aircraft: 914**

