

MATERIAL SAFETY DATA SHEET

Melpat Bordeaux



1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT IDENTIFICATION

Product Name : Bordeaux WG
Chemical family : Copper Calcium Sulphate
Structural Formula : $\text{CuO} \cdot \text{Ca} \cdot \text{SO}_4$

2. COMPOSITION/ INFORMATION ON INGREDIENTS

Component Name	%by Wt.	CAS#	ACGIH TLV	OSHA PEL
Elemental Copper	20	7440-50-8	1mg/m ³	1 mg/m ³

Components not precisely identified are proprietary or not hazardous.

3. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS

Inhalation: May irritate the respiratory tract.
Eyes: Moderately irritating; may burn the eyes.
Skin: May be moderately irritating.
Ingestion: May irritate the gastrointestinal tract.
Chronic: Overexposure by inhalation may cause coughing due to irritation of the respiratory tract.

4. FIRST AID MEASURES

Inhalation: Remove victim to fresh air; apply artificial respiration if needed. If irritation persists, seek medical attention.
Eye Contact: Flush eyes with large quantities of clean water for 10-15 minutes, holding lids open. If irritation persists, seek medical attention.
Skin Contact: Remove contaminated clothing and shoes. Bath and shampoo with soap and water to remove chemical from skin and hair. If irritation persists, seek medical attention.
Ingestion: Call a physician or Poison Control Center immediately.

5. FIRE FIGHTING MEASURES

Flash Point & Method: Not applicable.
Flammable Limits: No data.
Auto ignition Temperature: No data.

FIRE FIGHTING HAZARDS & PROCEDURES

General Hazard: Negligible fire hazard when exposed to heat or flame.
Extinguishing Media: Use foam, CO₂, dry chemical or water spray.
Fire Fighting Equipment: Wear protective clothing and self-contained breathing apparatus.
Hazardous Combustion Products: Decomposes to CO₂, SO₂ and copper oxides may be produced.

6. ACCIDENTAL RELEASE MEASURES

Released or Spilled: Wear protective clothing, chemical-resistant gloves and shoes, safety glasses or goggles (and a particulate respirator, NIOSH/MSHA TC-21C, if overexposure is possible). Collect the spilled material for reuse (if possible), or for proper disposal. Flush the area with water; keep rinse water from polluting surface water.

7. HANDLING AND STORAGE

General Information: Average shelf life under proper storage conditions is at least two(2) years.
Handling: Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation. Do not get in eyes, on skin, or on clothing. Do not ingest or inhale.
Storage: Store in a clean, dry, well-ventilated area. Do not store near feed, food or within the reach of children.
Store in the original closed container in a dry area that is inaccessible to children or pets.
Avoid cross- contamination with pesticides, fertilizers, food or feed.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

MANUFACTURING, COMMERCIAL BLENDING, & PACKAGING WORKERS

Ventilation:	Good local ventilation is required.
Respiratory Protection:	Where exposure limits may be exceeded, wear a respirator for particulates, NIOSH/MSHA approval n. TC-21C.
Eye Protection:	Safety glasses with side shields, or goggles.
Protective Clothing:	Long sleeves and pants; chemical-resistant gloves and shoes or boots with socks.

9. PHYSICAL AND CHEMICAL PROPERTIES

Vapor Pressure:	No data.
Density (20°C):	50 - 56 lb/ft ³ .
Solubility in Water:	Non soluble.
pH:	7,0 – 8,0
Boiling Point:	No data.
Melting Point:	No data.
Odor:	Odorless
Color:	Light green or blue
Physical State:	Fine powder or granule.

10. STABILITY AND REACTIVITY

General:	This material is stable under normal conditions.
Incompatible Materials:	Avoid contact with acids.
Conditions to Avoid:	Avoid high heat, which may lead to decomposition.
Hazardous Decomposition:	If burned, CO ₂ , SO ₂ , and copper oxide may be produced.
Hazardous Polymerization:	Will not occur.

11. TOXICOLOGICAL INFORMATION

ACUTE

Inhalation:	May irritate the respiratory tract.
Eye Irritation:	May be moderately irritation.
Skin Irritation:	May be moderately irritation.

Skin Absorption: Acute dermal LD₅₀ > 5,000 mg/kg. This product is slightly toxic by dermal exposure.

Ingestion: Oral LD₅₀ = 2,174 mg/kg. May irritate the gastrointestinal tract.

Chronic: Repeated ingestion of copper salts may results in anemia, liver, and kidney damage. Chronic inhalation exposure may cause a metallic taste in the mouth, irritation of the upper respiratory tract such as the nasal mucosa that may progress to perforation of the nasal septum. Chronic cough may also occur.

Special Health Effects: Copper-intolerant individuals should not be exposed to this material. No additional information is available on whether overexposure to this material would aggravate other existing special medical conditions.

12. ECOLOGICAL INFORMATION

Burning may produce toxic fumes. Run off from fire control may cause pollution; keep out of surface waters if possible. If contaminated water enters surface waters, contact local water pollution authorities.

Chemical Fate: The degree of mobility of copper in the environment depends upon the pH of ambient soils and waters. The higher the acidity, the more soluble copper salts are and, hence, the more mobile. Partitioning of copper into air is negligible due to the low vapor pressure of copper salts.

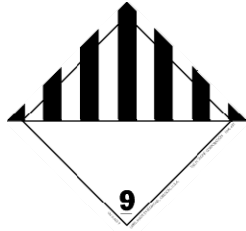
13. DISPOSAL CONSIDERATIONS

Dispose of wastes according to local, state and Federal regulations. Use registered transporters.

14. TRANSPORT INFORMATION

Proper Shipping Name:	Environmentally Hazardous Substance, Solid, N.O.S., (BORDEAUX MIXTURE), 9, UN3077, PGIII, Marine Pollutant.*
Hazard Class	9
ID	UN3077
PG	III

Transport labels :



15. REGULATORY INFORMATION

Regulatory requirements are subject to change and may differ from one location to another. It is the buyer's responsibility to ensure that its activities comply with federal, State, local and country laws.

16. OTHER INFORMATION

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