



## **SAFETY DATA SHEET**

### **Cuprited Sulphur Bentonite (Omasulf-Copper 12%)**

#### **SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Chemical Name	: Cuprited Sulphur Bentonite Fertilizer (Granular)
Chemical Formula	: Sulphur 76%, Cu-12%, Ingredient/filler 12% (Mole wt N/A)
CAS Number	: (Sulphur-7704-34-9, Cu- 7440-50-8)
Synonyms	: Omasulf –Copper 12
General Use	: Fertilizer (as soil application)
Manufacturer's Name	: Sohar Sulphur Fertilizers L.L.C
Address	: Plot 5205, Suhar Industrial City, Suhar, Sultanate of Oman
Telephone no. for info.	: +968 26942900
Email	: info@ssfoman.om
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#### **SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS**

Composition	: Sulphur 76%, Copper-12 & Ingredient/filler 12%
Hazardous components	: Sulphur and Copper compound
TLV	: Unusual chronic toxicity: N/A

#### **SECTION 3 - HAZARDS IDENTIFICATION**

Primary Entry Routes	: Skin, Eyes contact, Inhalation, Ingestion
Acute Effects	: Skin contact – frequent or prolonged contact may irritate the skin. Eye contact – Sulphur dust is capable of irritating the inner surfaces of the eyelids. Ingestion – Minimal toxicity irritates to mouth, throat and stomach. May cause digestive tract disorder/damage. Inhalation-Sulphur dust may irritate the mucous membranes of the respiratory passage.
Carcinogenicity	: None
Chronic Effects	: Unusual chronic toxicity N/A
NFPA rating	: Not Established

#### **SECTION 4 - FIRST AID MEASURES**

Eyes	: Irritate thoroughly with copious quantities of plain water
Skin	: Wash thoroughly with mild soap & water.
inhalation	: Remove to fresh air. Get medical attention for any breathing difficulty.



Ingestion : If swallowed, induce vomiting only if the victim is conscious. DO NOT attempt to give anything by mouth to an unconscious person

### SECTION 5 - FIREFIGHTING MEASURES

Flash point : Liquid -190°C (dust cloud), 220°C (Non-dispersed dust)  
 Flash point method : Closed cup  
 Auto ignition temp. : Dust cloud 190°C  
 L E L : 35 gm/m<sup>3</sup>  
 U E L : 1400 gm/m<sup>3</sup>  
 Flammability classifies : Condition to avoid the heat, sparks, open flame, and static electricity sources should be avoided.  
 Extinguishing media : Fighting fire with a fine water spray or fog is recommended. CO<sub>2</sub> and dry chemicals.  
 Unusual fire or explosion Hazards : Dust suspended in air is readily ignited by a flame, static electricity of friction spark. Every reasonable step is to minimize the formation of dust. Sparkle electrical equipment is recommended handling equipment must be grounded or bonded to avoid static electricity. Keep away from sources of flame or sparks.  
 Hazardous combustion Products : Burning Sulphur evolves Sulphur dioxide.  
 Firefighting instructions : Because burning Sulphur evolves Sulphur dioxide, breathing apparatus or gas masks approved for use in acid-gas atmosphere should be used. Fumes from unprotected Sulphur fires shall be avoided, if possible, by approaching for the upwind side. Cool containing vessels with flooding quantities of water until well after fire is out. A self-contained breathing apparatus should be used to avoid inhalation of toxic fumes. Evacuate area and fight fire from a safe distance

### SECTION 6 - ACCIDENTAL RELEASE MEASURES

Small Spills : Recover and recycle if possible.  
 Containment : Containing spilled material ensures that the spilled material does not enter sewers, wells, or watercourses which may degrade water quality.  
 Clean up : Use appropriate tools to put the spilled material in a convenient container for disposal. For landfill disposal, mix with limestone 3 times the weight of Sulphur. Ensure disposal complies with local regulations

### SECTION 7 - HANDLING AND STORAGE

Handling Precautions : Keep away from sources of ignition and incompatible material such as combustible materials. Take precautions against electrostatic discharges.



Avoid contact with skin and eyes. Do not breathe fumes or vapors. Keep out of reach of children

Storage Requirements      Solid becomes corrosive to metals when stored wet. Sulphur/bentonite fertilizer will physically break down when exposed to moisture or water.

### **SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION**

Engineering Controls      : Use process enclosures, local exhaust ventilation if dusty condition prevails.  
Respiratory Protection    : Dust type respirators shall be provided for dusty condition. Breathing apparatus must be available for emergency use in case of fire.  
Protective Clothing        : Hard hat and safety shoes. Fire-retardant fabric is recommended. Sulphur impregnated clothing should not be worn.

### **SECTION 9 - PROTECTION PHYSICAL AND CHEMICAL PROPERTIES**

Physical State              : Pastille  
Appearance & Odor        : Slightly greenish,  
Vapor Pressure             : No Information found  
Specific Gravity            : 5.6 gm/ml  
Water Solubility            : Insoluble  
Boiling Point               : 444 °C  
Melting Point              : 119 °C  
Vapor Density              : N/A

### **SECTION 10 - STABILITY AND REACTIVITY**

Stability                    : Unstable  
Chemical incompatibilities : Reactive with reducing agents, combustible materials, metals, acids, alkalis.  
Conditions to Avoid      : The main hazards are fire and dust explosion.  
Hazardous Decomposition Product      : Thermal decomposition may result to flammable and release of SO<sub>2</sub>

### **SECTION 11 - TOXICOLOGICAL INFORMATION**

TLV                          : 10 mg/m<sup>3</sup>  
Acute Inhalation Effects   : May cause irritation to mucous membrane of respiratory tract.

### **SECTION 12 - ECOLOGICAL INFORMATION**

Environmental Fate        : Environment Toxicity – No information found.



### **SECTION 13 - DISPOSAL CONSIDERATIONS**

- Disposal
- : Recycle to process, if possible. Recover and place material in a suitable container for intended use or disposal. Ensure disposal complies with government requirements and local regulations

### **SECTION - 14 - TRANSPORT INFORMATION**

- Storage
- : Sulphur fertilizer will physically break down when exposed to moisture or water. Store in a dry place.
- Normal handling
- : Avoid breathing dust
- Spill or leak
- : Shovel into disposal container to cover with tarpaulin, for land disposal neutralize by adding limestone
- Disposal
- : Contact your local supplier or licensed for detailed recommendation. Follow applicable federal, state and Local regulation

### **SECTION 15 - REGULATORY INFORMATION**

Strong Oxidizer

### **SECTION 16 - OTHER INFORMATION**

- Prepared by
- : QHSE DEPT
- Disclaimer
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