



## **SAFETY DATA SHEET**

### **Straight Sulphur Bentonite (Omasulf-90)**

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

Chemical Name	: Straight Sulphur Bentonite fertilizer (Granular)
Chemical Formula	: 90% (Sulphur Molecular Weight: N/A) 10% Bentonite Clay
CAS Number	: 7704-34-9
Synonyms	: Omasulf-90
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
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#### **SECTION 2 - 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 the 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 3 - COMPOSITION / INFORMATION ON INGREDIENTS**

Composition	: Sulphur 90%, Bentonite 10%
Hazardous components	: Sulphur
TLV	: 10mg/m <sup>3</sup>

#### **SECTION 4 - FIRST AID MESURES**

Eyes	: Irritate thoroughly with copious quantity 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 unconscious person

### SECTION 5 - FIRE FIGHTING MEASURES

Flash point : 188°C  
 Flash point method : Closed cup  
 Auto ignition temp. : Dust cloud 190°C  
 L E L : 35gm/m<sup>3</sup>  
 U E L : 1400gm/m<sup>3</sup>  
 Flammability classifying : Nonflammable.  
 Extinguishing media : Fighting fire with a fine water spray or fog is recommended. CO<sub>2</sub> and dry chemicals.  
 Unusual fire or explosion : Dust suspended in air is readily ignited by flame, static electricity of friction spark. Every reasonable step to minimize the formation of dust. Sparkles electrical equipment's is recommended handling equipment's must be grounded or bonded to avoid static electricity. Keep away from sources of flame or sparks.  
 Hazards  
 Hazardous combustion : Burning Sulphur evolves Sulphur dioxide.  
 Products  
 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 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

Personal precautions, protective equipment, and emergency procedures : Small Spills Recover and recycle if possible.  
 Environmental precautions : Contain spilled material ensures that the spilled material does not enter sewers, wells, or watercourses which may degrade water quality.  
 Methods and material for containment and cleaning 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

Precautions for safe handling : 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 vapor. Keep out of reach of children



Conditions for safe storage Specific end use(s)

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

Control parameters : Use process enclosures, local exhaust ventilation if dusty conditions prevail.  
Exposure controls : Dust-type respirators shall be provided for dusty conditions. Breathing apparatus must be available for emergency use in case of fire. 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 : 2.07gm/ml  
Water Solubility : 45% at °C (Ammonium Sulphate)  
Boiling Point : 444°C  
Melting Point : 119°C  
Vapor Density : > 1

## SECTION 10 - STABILITY AND REACTIVITY

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

## 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

Waste treatment methods : 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

	DOT	IMO
Shipping name	SULPHUR BENTONITE	SULPHUR BENTONITE
Hazard class	None	None
UN Number	None	None
Packing Group	None	None

#### SECTION 15 - REGULATORY INFORMATION

Strong Oxidizer

#### SECTION 16 - OTHER INFORMATION

Prepared by  
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