



صندوق البريد ٩٦،
الرمز البريدي ٣٢٧٠،
صحار، سلطنة عمان.
الهاتف: ٩٦٨ ٢٦٩٤٢٩٠٠
الفاكس: ٩٦٨ ٢٦٩٤٢٩٠٠
P.O.Box 96, P.C 327,
Sohar, Sultanate of Oman
T: +968 26942900
F: +968 26942900
E: info@ssfoman.com
W: www.ssfoman.com

MATERIAL SAFETY DATA SHEET

Straight Sulphur Bentonite (Omasulf-85)

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Chemical Name	: Straight Sulphur Bentonite fertilizer (Granular)
Chemical Formula	: 85% (Sulphur Molecular Weight: N/A) 15% Bentonite Clay
CAS Number	: 7704-34-9
Synonyms	: Omasulf-85
General Use	: Fertilizer (as soil application)
Manufacturer's Name	: Sohar Sulphur Fertilizers L.L.C
Address	: Plot 5205, Sohar Industrial Estate, Sohar, Sultanate of Oman
Telephone no. for info.	: +968 26942900
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SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

Composition	: Sulphur 85%, Bentonite 15%
Hazardous components	: Sulphur
TLV	: 10mg/m ³

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



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SECTION 4 - FIRST AID MEASURES

- Eyes : Sulfur dust is capable of irritating the inner surfaces of the eyelids.
- Skin : In some individuals, Sulfur dust has an irritant action, which may be aggravated by perspiration or moisture.
- Inhalation : Sulfur dust may irritate the mucous membranes of the respiratory passages.
- Ingestion : Solid Sulfur is virtually non-toxic. It can be taken internally in fairly large doses without injury.

SECTION 5 - FIRE FIGHTING MEASURES

- Flash point : 220°C
- Flash point method : Closed cup
- Auto ignition temp. : Dust cloud 190°C
- L E L : 65gm/m³
- U E L : 1400 gm/m³
- Flammability classifying : Nonflammable
- Extinguishing media : Fight fire with a fine water spray or fog is recommended. CO₂ and dry chemical.
- Unusual fire or explosion Hazards : 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.
- 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 : Contain spilled material ensure 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



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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	: 2.07 gm/ml
Water Solubility	: 45% at °C (Ammonium Sulphate)
Boiling Point	: 444°C
Melting Point	: 119°C
Vapor Density	: > 1

SECTION 10 - STABILITY AND REACTIVITY

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



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SECTION 11 - TOXICOLOGICAL INFORMATION

TLV : 10 mg/m³
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

Shipping name:

	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 : PRODUCTION DEPT
Disclaimer : This MSDS and the information it contains is offered to you in good faith as accurate. We believe that information to be correct but cannot guarantee its accuracy or completeness. Health and safety precautions in this data sheet may not be adequate for all individual and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. Now statement made in this data sheet shall be construed as a permission or recommendation for the use of any product in a manner that might infringe existing patents.