

MATERIAL SAFETY DATA SHEET

Elemental Sulphur Prills

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
Fertco 2016 Ltd
Address : 20A Jean Batten Drive,
Mount Maunganui,
Tauranga
Telephone no. for info. : Freephone 0800 FERTCO (0800 337 826)
Date prepared : November 2019
Revision # : 01

SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

Composition : Sulphur 90% , Bentonite 10%
Hazardous components : Sulphur
TLV : 10 mg/m³

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 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 victim is conscious. DO NOT attempt to give anything by mouth to unconscious person

SECTION 5 - FIRE FIGHTING MEASURES

- Flash point : 188 o C
- Flash point method : Closed cup
- Auto ignition temp. : Dust cloud 190 o C
- L E L : 35 gm/ m3
- U E L : 1400 gm/ m3
- Flammability : Nonflammable.
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- Extinguishing media : Fight fire with a fine water spray or fog is recommended. CO2 and dry chemical.
- 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
- Fire fighting 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 |

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 0 C (Ammonium Sulphate) |



Boiling Point : 444 oC
Melting Point : 119 oC
Vapor Density : > 1

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 SO₂

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 | OMASULF-90 | OMASULF-90 |
| Hazard class | 4.1 | 4.1 |
| UN Number | 1350 | 1350 |
| Packing Group | Not established | Not established |



SECTION 15 - REGULATORY INFORMATION

Strong Oxidizer

SECTION 16 - OTHER INFORMATION

Prepared by : PRODUCTION DEPT
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