



Sulphur mills limited



604/605, 349 - Business Point, 6th floor, Western Express Highway, Andheri (East), Mumbai - 400 069. INDIA
Tel.: +91-22-56910011 (8Lines) • Fax : +91-22-56910308 • E-mail : sml@sulphurmills.com • Website : www.sulphurmills.com

Date: 11. 01. 2013

MATERIAL SAFETY DATA SHEET

Section 1: CHEMICAL IDENTITY AND USE

Trade Name: THIOFIX 80 DF

Product Name: Sulphur 80 %WG

Active ingredient: Sulphur

Chemical Classification: Non Metallic Element

Formula: S_x

Chemical Name: Sulphur

CAS No.: 7704-34-9

Molecular weight: 32.1

USE of product: Fungicide and Acaricide

Manufacturer/Supplier:

Sulphur Mills Limited

604/605, 6th Floor, 349-Business Point Western Express Highway,

Andheri (East), Mumbai - 400 069, India

Tel.: + 91 22 - 4345 2222

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Section 2: COMPOSITION /INFORMATION ON INGREDIENTS

Ingredients	CAS No.	Content (% w/w)
1. Sulphur	7704-34-9	80.00
2. Additive & Inerts	-	20.00
Total		100.00

Section 3: HEALTH HAZARD INFORMATION

CAUTION

Keep out of Reach of Children

Harmful if swallowed, inhaled or absorbed through skin. Causes moderate eye irritation.

Acute Health effects

Early symptoms may be any combination of nausea, vomiting irritation to eye and bronchial tube may occurred if inhaled

Emergency treatment: avoid contact with skin, eye or clothing. Avoid breathing spray mist.

Section 4: FIRST AID MEASURES

If swallowed: call poison control center or doctor immediately for treatment advice.

Have person sip a glass of water if able to swallow.

Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.



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If inhaled: move person to fresh air. If person is not breathing then give **Artificial Respiration**, preferably by mouth to mouth if possible.
call poison control center or doctor immediately for treatment advice.
If on skin or clothing : Take off contaminated clothing
Rinse skin immediately with plenty of water for 15-20 minutes.
call poison control center or doctor immediately for treatment advice.
If in Eye: Hold eye open and rinse slowly and gently with water for 15-20 minutes.
Remove contact lense, if present after the first 5 minutes then continue rinsing eye.
call poison control center or doctor immediately for treatment advice.

Section 5: FIRE AND EXPLOSION HAZARD

Suitable extinguishing agents:
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
For safety reasons unsuitable extinguishing agents: Water with full jet
Special hazards caused by the substance, its products of combustion or resulting gases:
Produces toxic sulfur dioxide gas.
Protective equipment:
Wear suitable protective clothing to avoid contact with skin.
Wear self-contained respiratory protective device.
Additional information Burns with a pale blue flame that may be difficult to see in daylight.

Section 6: ACCIDENTAL RELEASE MEASURES

Person-related safety precautions: Wear protective equipment. Keep unprotected persons away.
Measures for environmental protection: Do not allow to enter sewers/ surface or ground water.
Measures for cleaning/collecting: Pick up mechanically.
Steps to be taken: Evacuate endangered area, cut off area. Take up in dry state without forming dust. If small amount, take up by mechanical means and dispose.

Section 7: WASTE DISPOSAL CONSIDERATIONS

Waste Disposal method: Local regulations should be adhered to. Incineration in controlled furnace. Destroy the empty containers in a safe and authorized place. If burnt avoid inhalation of smoke (if burning permitted). Never re-use empty packs.

Section 8: HANDLING AND STORAGE PRECAUTION

Store in the closed, original container in a well -ventilated area and as cool as possible. Do not store for long periods in direct sunlight.

Section 9: PERSONAL AND ENGINEERING PROTECTION

Engineering control:
Eyeswash and washing facilities must be readily available. For decontamination clothes and equipment have soap and water on hand.
Personnel protection:
Applicator and other handlers must wear long -sleeved shirt and long pants, chemical-resistant gloves made by any waterproof material such as polyethylene or polyvinyl chloride,



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shoes plus socks and protective eyewear. Date: 11. 01. 2013

Keep and wash PPE separately from other laundry as detergent

User safety Recommendation:

User should:

. wash hands before eating, drinking, chewing gum, using tobacco or using toilet.

Remove clothing immediately if pesticides get inside. Then wash thoroughly and put on clean clothing.

.Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing

Section 10: PHYSICAL AND CHEMICAL INFORMATION

Physical state: Solid

Appearance: Brown coloured granules

Suspensibility: Min. 70.0%

Wet sieve test: Max. 0.05 % on 75 µm test sieve

Persistent foam: Max. 25.0 mL

Wettability: Max. 60.0 sec.

Ignition temperature : 260 °C

Flammability: Non flammable

Section 11: REACTIVITY DATA

Thermal decomposition / conditions to be avoided:

Keep away from heat, air and moisture.

Keep away from excess heat

Materials to be avoided: Incompatible with oxidizing materials.

Dangerous reactions Reacts violently with strong oxidants.

Dangerous decomposition products:

On combustion, form toxic and corrosive gases of sulfur oxides, including sulfur dioxide.

Section 12: TOXICITY INFORMATION

Acute toxicity

Oral LD₅₀: > 5000 mg/kg (rat)

Dermal LD₅₀: > 2000 mg/kg (rat)

Inhalation LC₅₀: > 2.6 ± 0.35 mg/l (rat)

Eye contact: Slight irritant (rabbits)

Skin contact: Slight irritant (rabbits)

Skin sensitization: Not a sensitizer

Mutagenic potential: Non mutagenic

Reproductive hazard potential: No reproduction hazard

Chronic /subchronic toxicity studies: No risk of chronic toxicity

Carcinogenic potential: Non carcinogenic

Target organs: Eyes, skin , respiratory system



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Section 13: ECOLOGICAL INFORMATION

Non toxic to bees and fish : LC50(96hrs) > 100 mg a.i./l (Brachydanio rerio(fish ,freshwater),
Birds: LD₅₀ for Bobwhite quail: >2000 mg/kg (bobwhite quils)
Daphnia LC50(48hrs) : >100mg/l
Worm: observed NOEC, LOEC and LC50 was > 1000 mg/kg test medium on dry weight basis.
Environmental Fate:
Degradation proceeds primarily by microbial reduction in and on plant. Insoluble in water, no leaching potential into groundwater. When oxidized to sulfate, its contribution as sulfate ions from persticidal sources is negligible in comparison with the natural occurrence of sulfates in soil and water.

Section 14: TRANSPORT INFORMATION

Type of chemical: Sulphur- Non metallic form.
State of chemical: Solid
UN Number: Not Applicable
IMDG code-page No.: Not Applicable.
IMCO CLASS: Not Applicable
(Sulphur is non-hazardous)

Section 15: REGULATORY INFORMATION

CAUTION

KEEP OUT OF REACH OF CHILDREN

Harmful if swallowed, inhaled or absorbed through skin. Causes moderate eye irritation.

Safety phrases:

S2 Keep out of the reach of children.

S22 Do not breathe dust

S24 Avoid contact with skin

S25 Avoid contact with eyes

S29 Do not empty into drains

S7/9 Keep container tightly closed and in a well-ventilated place

S20/21 When using do not eat, drink or smoke

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection

S56 Dispose of this material and its container to hazardous or special waste collection point.

Section 16: OTHER INFORMATION



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