



**Sulphur mills limited**  
( An ISO 9001-2008 Company )



604/605, 349 - Business Point, Western Express Highway, Andheri (East), Mumbai - 400 069. INDIA  
Tel. : +91-22-4345 2222 • Fax : +91-22-4345 2245 / 2682 3716 • E-mail : [sml@sulphurmills.com](mailto:sml@sulphurmills.com) • Website : [www.sulphurmills.com](http://www.sulphurmills.com)

### SAFETY DATA SHEET

#### UNICORN® DF (SULPHUR 70% + TEBUCONAZOLE 4.5% WG)

#### **Section 1: Identification of the substance/mixture and of the company/undertaking**

**Product details -**

**Trade name:** UNICORN DF

**Product Name:** Sulphur 70 % + Tebuconazole 4.5 % WG

**Application of the substance / the preparation :** Plant protection - agricultural pesticide used as fungicide

**Composition :** Sulphur 70% w/w & Tebuconazole 4.5 % w/w

**Manufacturer/Supplier:**

Sulphur Mills Limited  
604/605, 6th Floor, 349-Business Point  
Western Express Highway, Andheri (East),  
Mumbai - 400 069, India.

**Further information obtainable from:**

Tel.: + 91 22 – 4345 2222

Fax : +91 22 4345/2245

Email : [sml@sulphurmills.com](mailto:sml@sulphurmills.com)

#### **Section 2: Hazards identification**

**Classification –**

**Hazard Symbol:**



GHS08



GHS09



**Signal word:** Warning

**Hazard statements:**

H361: Suspected of damaging the unborn child

H410 : Very toxic to aquatic life with long lasting effects

H303: May be harmful if swallowed

H313: May be harmful in contact w/skin

H333: May be harmful if inhaled

H316: Causes mild skin irritation

H320: Causes eye irritation

**Precautionary statements:**

P273 : Avoid release to the environment.

P280 : Wear protective gloves/protective clothing/eye protection/face protection

P308 + P313 : IF exposed or concerned: Get medical advice/attention.

P302+ P352: If on skin, wash with plenty of water.

P262: Do not get in eyes or on clothing. Avoid contact with skin, eyes or clothing,

P261: avoid breathing dust or spray mist.

P405 : Store locked up

P391 : Collect spillage

P501 : Dispose of contents/container to approved disposal company or local collection point

**Environmental Hazards –** This pesticide is toxic to mammals, fish and aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment wash water or rinsate.



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## Section 3 : Composition/Information on Ingredients

### Chemical characterization

Description: Mixture of substances listed below with non-hazardous additions.

Components			Classification
CAS: 7704-34-9 EINECS: 231-722-6	Sulphur	70 % w/w	GHS07, skin irritation, Cat 2 H315: Causes skin irritation 
CAS: 107534-96-3 ELINCS: 403-640-2	Tebuconazole	4.5 % w/w	GHS08, Rep Cat 2 H361d : Suspected of damaging the unborn child  GHS09, Aquatic Acute 1, Aquatic Chronic 1 H410 : Very toxic to aquatic life with long lasting effects H400 : Very toxic to aquatic life  GHS07, Acute Tox, 4 H302 : Harmful if swallowed 

## Section 4 : First Aid Measures

**General information:** Immediately remove any clothing soiled by the product.

**If poisoning occurs, contact a doctor or Poisons Information Center.**

**Eyes:** Rinse eyes well with copious amount of water for at least 15 minutes.

**Skin:** Remove any contaminated clothing, wash skin thoroughly with soap and water. Obtain medical attention if irritation occurs.

**Inhalation:** Remove from source of contaminated to open space/fresh air, maintain respiration. Obtain medical attention if symptoms persist

**Ingestion:** Rinse mouth with water. Do not induce vomiting. Seek medical attention.

**Advice to Doctor/Antidote :** No antidote, treat symptomatically.



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## Section 5 : Firefighting Measures

**Suitable extinguishing agents:** Water spray, foam, carbon dioxide or dry chemical or other firefighting measures that suit environment.

**For safety reasons unsuitable extinguishing agents:** water with full jet

### Special hazards arising from the substance or mixture

Can be released in case of fire:

Nitrogen oxide (NO<sub>x</sub>)

Carbon monoxide (CO)

Hydrogen chloride (HCl)

Sulphur dioxide (SO<sub>2</sub>)

### 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

### Personal precautions, protective equipment and emergency procedures

Wear safety equipment. Keep unprotected people away.

Eliminate all potential sources of ignition. Equip clean up personnel with appropriate protective equipment and work upwind or increase ventilation

### Precautions for the protection of the environment:

Do not discharge into drains, surface water or ground water.

### Methods and material for containment and cleaning up:

Cover with damp inert material such as sand and sweep or vacuum up without generating dust. Shovel into labelled, sealed containers, bags or drums for disposal or reuse using a spark-free shovel.

Dispose of contaminated material as waste according to point 13.

### Reference to other headings

For information on safe handling, see Chapter 7.

For information on personal protective equipment, see Chapter 8.

For information on disposal, see Chapter 13.



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## Section 7 : Handling and Storage

### Handling:

**Information for safe handling:** Prevent formation of aerosol.

### Information about fire and explosion protection:

Protect against electrostatic charges.

Keep ignition sources away - Do not smoke.

Wear protective equipments and clothing during use. Avoid skin and eye contact and inhalation of dust. Keep clothing as free from dust as possible.

### Storage:

#### Requirements to be met by storerooms and receptacles:

Store in original container in a cool, well -ventilated area away from sources of heat or ignition and out of direct sunlight.

Store away from oxidizing materials like chlorates, nitrates.

Preparations containing sulfur may react with metals including silver and copper, resulting in discoloration of the metal.

Keep containers tightly closed. Keep away from children.

#### Information about storage in one common storage facility:

Do not store together with incompatible materials and foodstuffs.

**Further information about storage conditions:** Store in cool, dry, well ventilated location.

**Specific applications :** Used as fungicide

## Section 8 : Exposure Controls/Personal Protections

**Additional information about design of technical facilities:** No further data; see item 7.

**Ingredients with limit values that require monitoring at the workplace:** The product does not contain any relevant quantity of materials with critical values that have to be monitored at the workplace.

### Personal protective equipment:

#### General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

**Respiratory protection:** Suitable respiratory protective device recommended.

**Protection of hands:** Use protective gloves



The glove material has to be impermeable and resistant to the product / the substance / the preparation.

**Material of gloves:** The choice of appropriate gloves depends not only on the material but also on other quality criteria that



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may vary from manufacturer to manufacturer. Since the product represents a preparation composed of several substances, the resistance of glove materials cannot be calculated in advance and must, therefore, be checked before use.

Penetration time of glove material: The exact penetration time is to be determined by the manufacturer of the protective gloves and to be respected.

**Eye protection:** Safety glasses

**Body protection:** Protective work clothing

## Section 9 : Physical and Chemical Properties

### General Information

#### Appearance :

<b>Form</b>	:	Brown coloured free flowing granules
<b>Colour</b>	:	Brown
<b>Odour</b>	:	Specific odour

### Change in condition

<b>Melting point/Melting range</b>	:	-
<b>Boiling point/Boiling range</b>	:	-

<b>Flash point</b>	:	Non flammable
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### Ignition temperature

<b>Self – ignition</b>	:	239 °C
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<b>Danger of explosion</b>	:	product does not present an explosion hazard
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<b>Density</b>	:	0.45 – 0.55 g/ml
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<b>Solubility in / Miscibility with water</b>	:	Dispersible in water
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<b>Solvent content</b>	:	organic: 0.00% , VOC(EC) 0.00 %
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<b>Solid content</b>	:	100%
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### Additional Information

<b>Oxidizing Properties</b>	:	Non oxidizing
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## Section 10 : Stability and Reactivity

**Reactivity / Conditions to Avoid** : Keep away from heat and moisture.

**Chemical Stability / Possibility of Hazardous Reactions** : Product is stable under normal conditions but may react with strong oxidants

**Incompatible materials** : No further information available

**Hazardous decomposition products** : On combustion, form toxic and corrosive gases of sulfur oxides, including sulfur dioxide.



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## Section 11 : Toxicological Information

### Acute Toxicity

Oral LD<sub>50</sub> : > 2000 mg/kg (rat)  
Dermal LD<sub>50</sub> : > 2000 mg/kg (rat)  
Inhalation LC<sub>50</sub> (4 hr) : > 4.943 mg/l (maximum a

### Primary irritant effect:

on the skin : non Irritant to skin, not classified  
on the eye : non irritating to eye, not classified  
Sensitization : Non sensitizer, not classified

### CMR effects (carcinogenic, mutagenic and toxic for reproduction)

Germ cell mutagenicity : Based on available data, the classification criteria are not met.

Carcinogenicity : Based on available data, the classification criteria are not met.

Reproductive toxicity : Suspected of damaging the foetus.

Specific target organ toxicity - single exposure : May irritate the respiratory tract.

Specific target organ toxicity - repeated exposure : Based on available data, the classification criteria are not met.

Aspiration hazard : Based on available data, classification criteria are not met

## Section 12 : Ecological Information

**Fish** – LC<sub>50</sub>(96 hrs) - > 100 mg/l (Rainbow trout)

**Daphnia** - EC<sub>50</sub>(48 hrs) - 100 mg/l

**Algae** – EC<sub>50</sub>(72 hrs) - 100 mg/l

**Honey bee** – > 100 µg a.i. per bee (contact)  
> 100 µg a.i. per bee nominal & 91 µg a.i. per bee ingested (oral)

**Bird** - LD<sub>50</sub> - > 2000 mg/kg bw (Bobwhite quail)

**Earthworm** - > 1000 mg/kg dry soil

Persistence and degradability : No further relevant information available.

Bioaccumulative potential : No further relevant information available.

Mobility in soil : No further relevant information available.

### General indications:

Must not enter in undiluted or unneutralized state in the wastewater or the collector.

Very toxic to aquatic organisms.



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#### Results of PBT and vPvB assessment

PBT: Not applicable.

VPvB: Not applicable.

Other adverse effects : No further relevant information available.

### Section 13 : Disposal Considerations

#### Product:

#### Recommendation :

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.  
European waste catalogue 20 01 19\* pesticides

#### Uncleaned packaging :

#### Recommendation :

Disposal must be made according to official regulations.  
Eliminate empty packaging via collections organized by ADIVALOR partners.

### Section 14 : Transport Information

#### IMDG –

UN No. 3077  
Class – 9  
Packing group III

#### Ground Transportation:

Not regulated by US DOT Not regulated by Canadian TDG

#### IATA -

UN No. 3077  
Class – 9  
Packing group III

**Proper Shipping Name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Tebuconazole)

**Transport document description:** UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Tebuconazole), 9, III

#### Transport Hazard Class:

Class 9

Hazard labels





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## Section 15 : Regulatory Information

### FIFRA INFORMATION:

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information for safety data sheet, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label.

**CAUTION:** Corrosive. Causes irreversible eye damage. Harmful if swallowed. Harmful if absorbed through skin. Do not get in eyes or on clothing. Avoid contact with skin. Wear protective eye wear (goggles, face shield, safety glasses), long-sleeved shirt, long pants, shoes, socks, and chemical resistant gloves (such as or made out of any waterproof material, selection category A).

## Section 16 : Other Information

### DISCLAIMER

Information contained in this material safety data sheet is believed to be reliable but no representation; guarantee or warranties of any kind are made as to its accuracy, suitability for a particular application or results to be obtained from them. It is up to the User/Distributor to ensure that the information contained in the material safety data sheet is relevant to the product manufactured/handled or sold by him as the case may be, Sulphur Mills Ltd. makes no warranties, expressed or implied, in respect of the adequacy of this document for any particular purpose.