



Sulphur mills limited



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MSDS No.: U147454
Issue Date: 20/05/2008
Updated on: 03/03/09

MATERIAL SAFETY DATA SHEET

Section 1: CHEMICAL IDENTITY AND USE

Product Name: UNICORN

Active ingredient: Sulphur & Tebuconazole

Chemical Classification: Non Metallic Element & azole Mol. Formula: S_x & $C_{16}H_{22}ClN_3O$

Chemical Name: Sulphur & (RS)-1-*p*-chlorophenyl)-4,4-dimethyl-3-(1*H*-1,2,4-triazol-1-ylmethyl)-pentan-3-ol

CAS No.: 7704-34-9. & 107534-96-3

Molecular weight: 32.1 & 307.8

USE of product: Fungicide and Acaricide.

Section 2: COMPOSITION /INFORMATION ON INGREDIENTS

Ingredients	CAS No.	%	EU number	PEL/TLV	EU class
1. Sulphur	7704-34-9	70.00	DNA	DNA	DNA
2. Tebuconazole	107534-96-3	04.50			
Additive & Inerts		25.50			

Section 3: HEALTH HAZARD INFORMATION

Acute exposure health effects:

May cause nausea, headache, diarrhoea if ingested large quantities. Do not take it orally. May cause eye or dermal irritation if exposed to eye or skin. Avoid eye and skin contact. Harmful if inhaled. Avoid breathing dust or spray mist.

Emergency treatment: If inhaled, remove victim to fresh air. If gets in eyes, flush with water. If falls on skin, wash with soap and water. Remove contaminated clothing. If irritation persists, contact a doctor. If swallowed, induce vomiting by touching back of throat with finger or by giving an ounce of syrup of ipecac with 2 glasses of water. Do not give anything by mouth to an unconscious person.

STEL (ACGIH) DNA

IDLH

DNA

NFPA Hazard signals: Health = 1

Fire= 1

Reactivity= 0

Section 4: FIRST AID MEASURES

If poisoning occurs, call a doctor or Poison Information Centre.

Eyes: Hold eye open and rinse eyes gently with clean water for at least 15 minutes.

Skin: Take off the contaminated clothing; wash exposed skin thoroughly with soap & water.

Inhalation: Remove from contaminated source to open space / fresh air; maintain respiration.

Ingestion: Seek medical advice; do not give anything by mouth to an unconscious person.

Antidote: Treat symptomatically.



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Section 5: FIRE AND EXPLOSION HAZARD

Flash point: Not Flammable	Auto-ignition temperature: DNA
Explosion sensitivity to static Electricity: Yes	Explosion sensitivity to Impact: Not explosive
Material: No	Flammable Material: No
Corrosive Material: No	Pyrophoric Material: No
Oxidizer: No	Hazardous polymerization: No
Flammability LEL % V: Not pertinent	Fire fighting media: Fog, Foam, dry agent
UEL % V: Not pertinent	Special procedure: No
Organic Peroxide: No	

Section 6: ACCIDENTAL RELEASE MEASURES

Steps to be taken, if material spills: Evacuate and cut off endangered area. Sweep up spilled material in dry state without creating dust cloud. Keep in suitable closed bags for disposal. Do not allow material to enter waterbodies.

Section 7: WASTE DISPOSAL CONSIDERATIONS

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

Section 8: HANDLING AND STORAGE PRECAUTION

Handle and open container in a manner as to avoid spillage.
Store in the original container in a cool, dry, well ventilated area under lock and key. Do not store for long periods in direct sunlight. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum or tobacco or smoking.

Section 9: PERSONAL PROTECTIVE

Use protective clothing while handling pesticides. Remove clothing immediately if it gets in and put on fresh clothing. Decontaminate clothes and equipment with soap and water.
Eyewash and washing facilities must be readily available, for emergency use.

Section 10: PHYSICAL AND CHEMICAL INFORMATION

Physical state: Solid
Appearance: Brown colour granules
Wettability: Max. 60.0 sec.
pH: 6 - 8.5
Persistence foam: Max. 25.0 mL

Section 11: STABILITY AND REACTIVITY DATA

Chemical stability: Stable under normal condition.
Incompatible with other material: None
Reactivity: None
Conditions to avoid: Exposure to moisture, extreme heat and direct prolonged sunlight.
Hazardous reaction product: None



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Section 12: TOXICITY INFORMATION

Acute toxicity	
Oral-	: > 2000 mg/kg (rat)
Dermal	: > 2000 mg/kg (rat)
Inhalation-	: > 5.0 mg/L (rat)
Eye contact	: Non irritant.(for rabbits)
Skin contact	: Non irritant (for rabbits)
Skin sensitization	: Weak skin sensitizer (Guinea Pig)

Section 13: ECOLOGICAL INFORMATION

Sulphur: Non-toxic to bees, fish and wild life.
Tebuconazole: Birds: Acute oral LD₅₀ for male Japanese quail 4438, female Japanese quail 2912, bobwhite quail 1988 mg/kg; Fish: LC₅₀ (96 h) for Rainbow trout: 6.4mg /L; Bees: Non-toxic to bees; Daphnia: LC₅₀ (48 h) 11.5mg /L; Algae E_rC₅₀ (96 h) for *Scenedesmus subspicatus* 4.01 mg/L..
Avoid drift, runoff and direct application to water bodies and area with surface water.

Section 14: TRANSPORT INFORMATION

Proper shipping name: Environmentally hazardous substance, solid, N.O.S.
State of chemical : Solid
IMCO class : 9
UN number : 3077
IMDG : 9029

Section 15: PACKING INFORMATION

Packed multi-wall paper bags. Packing group-III.

Section 16: 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 Limited* makes no warranties, expressed or implied, in respect of the adequacy of this document for any particular purpose.