

VILLA SULFLO 700 SC

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF PRODUCT AND COMPANY

Product Name: SULFLO 700 SC
 Fungicide
UN No. 2902
Supplier: Villa Crop Protection (Pty) Ltd.
 P.O. Box 10413,
 Aston Manor, 1630, South Africa
Telephone: (011) 3962233
Fax: (011) 3964666
Website: www.villacrop.co.za

Emergency telephone numbers:

24 Hr Transport / Spill emergency no:

Envirosure. +27 31 205 4918
 (Hazcall24) +27 86 044 4411

(Client: Villa Crop Protection)

Griffon Poison Information Centre +27 82 446 8946

(Client: Villa Crop Protection)

Poisoning Emergency telephone numbers:

Griffon Poison Information Centre +27 82 446 8946
 Poisons Information Centre +27 861 555 777

Villa Crop Protection Emergency number:

National Safety, Health and Environmental Manager:
 +27 63 698 0668

2. COMPOSITION/INFORMATION ON INGREDIENTS

Common Name Sulfur
Chemical Name: Sulfur
 (IUPAC)
CAS No.: 7704-34-9
Chemical Family: Chalcogens
Chemical Formula: S (Mol. wt.: 32.1)
Use: Fungicide.
Formulation: Sulphur 700 g/l
 Suspension Concentrate
Hazardous components: Sulphur
EEC classification: Xn
RISK PHRASE(S): R 22, R36/37

3. HAZARD IDENTIFICATION

Toxicity class:

WHO (a.i) U; EPA (formulation) IV;

Main Hazard: May cause skin & eye irritation.

Ingestion: Harmful if swallowed.

Inhalation: Irritating to the respiratory system.

Skin contact: May cause irritation to the skin.

Eye contact: Causes mild irritation to eyes.

4. FIRST AID MEASURES AND PRECAUTIONS

Inhalation: Remove source of contamination or move victim to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. DO NOT give mouth-to-mouth resuscitation if victim ingested or inhaled the substance. Keep person at rest and warm. Treat symptomatically and supportively as and when required. Obtain medical advice if necessary.

Skin contact: Remove contaminated clothing, shoes and leather goods. Gently wipe of excess chemical. Wash skin gently and thoroughly with water and non-abrasive soap for at least 15 minutes. Get medical attention if irritation develops or persists. Wash clothing before re-use.

Eye contact: Immediately flush eyes with gently flowing lukewarm water or saline solution for 20 minutes, holding the eyelid(s) open. Get medical attention if necessary.

Ingestion: Rinse mouth thoroughly with water. Give 1/2 to one glass of water if victim is alert and not convulsing. Induce vomiting immediately as directed by medical personnel. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomits, rinse mouth and administer more water. Never give anything by mouth to an unconscious person. Qualified medical personnel should perform administration of oxygen. Seek medical advice if necessary.

5. FIRE FIGHTING MEASURES

Fire/Explosion hazard: Not considered to be a fire hazard. Some could burn, but none ignite readily.

Extinguishing agents: Extinguish fires with carbon dioxide, dry powder, or alcohol-resistant foam. Water spray can be used for cooling of unaffected stock, but avoid water coming in contact with the product. Contain water used for fire fighting for later disposal. Avoid the accumulation of polluted run-off from the site.

Firefighting: Remove spectators from surrounding area. Remove container from fire area if possible. Fight fire from maximum distance. For massive fire, use unmanned hose holder or monitor nozzles. Contain fire control agents for later disposal. Use a recommended extinguishing agent for the type of surrounding fire. Water can be used to cool unaffected containers but must be contained for later disposal. Avoid inhaling hazardous vapours. Keep upwind.

Special Hazards: Fire may produce irritating or poisonous vapours, mists or other products of combustion.

Personal protective equipment: Fire fighters and others that may be exposed should wear full protective clothing and NIOSH-approved self contained breathing apparatus with full-face piece operated in the pressure demand or other positive pressure mode.

SULFLO 700 SC

MATERIAL SAFETY DATA SHEET

6. ACCIDENTAL RELEASE MEASURES (SPILLAGE)

Personal precautions: Do not inhale dust, fumes or vapours. Ventilate area of spill or leak, especially confined areas. Avoid contact with skin, eyes or clothes. For personal protection see Section 8.

Environmental precautions: Do not allow entering drains or watercourses. When the product contaminates public waters, report immediately to the Police and to the Department of Water/Environmental Affairs.

Occupational spill: Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Stop leak if you can do so without any risk. Prevent entry of substance into waterways, sewers, basements or confined areas.

Ventilate area of leak or spill.

Small spills: Absorb with sand or other non-combustible absorbent material and put in a suitable container reclamation or disposal.

Large spills: Dyke far ahead of liquid spills for later disposal. Prevent entry of the substance into waterways, sewers, basements or confined areas.

7. HANDLING AND STORAGE REQUIREMENTS

Handling: Wear appropriate personal protective equipment (see Section 8). Avoid contact with eyes. Do not get on clothing. Wash thoroughly after handling the product and change clothes. Do not eat, drink or smoke while handling the product. Keep out of reach of children or uninformed persons. Observe all warnings and precautions listed for the product.

Storage: Store in its original container in isolated, dry, cool and well-ventilated area. Store away from heat, sparks and other sources of ignition. Do not contaminate water, food or feed by storage or disposal. Protect against physical damage.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT:

If engineering controls and work practices are not effective in controlling exposure to this material, then wear suitable personal equipment including approved respiratory protection.

Respirator: An approved full-face respirator suitable for protection from mists of pesticides is required. Limitations of respirator use specified by the approving agency and the manufacturer must be observed.

Clothing: Employee must wear appropriate protective (impervious) clothing and equipment to prevent skin contact with the substance.

Gloves: Employee must wear appropriate chemical resistant protective gloves to prevent contact with this substance.

Eye protection: Use chemical safety goggles and/or full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

Emergency eyewash: Where there is any possibility that an employee's eyes may be exposed to this substance, the employer should provide an eye wash fountain or appropriate alternative within the immediate work area for emergency use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Yellow suspension.

Odour: Pungent odour.

Solubility: Completely soluble in water.

Density: 1.40.

Flammability: Non-flammable.

Flash point: Not applicable.

pH: 6.2 to 6.5

10. STABILITY AND REACTIVITY

Storage Stability: The product is stable for two (2) years under ordinary conditions of use and storage.

Hazardous Polymerisation: Will not occur.

Conditions to avoid: Heat, incompatibles, open flames and ignition sources.

Incompatibility: Strong oxidizers.

Thermal decomposition: Oxides to Sulfur.

11. TOXICOLOGICAL INFORMATION

Acute oral LD₅₀: Non-toxic.

Acute dermal LD₅₀: > 2000 mg/kg.

Acute inhalation LC₅₀ (4 h): 9.23 mg/l/hr.

Acute skin irritation: Mild-irritant.

Acute eye irritation: Mild-irritant.

Dermal sensitisation: This product is a non-sensitising substance to guinea pigs.

Carcinogenicity: Studies did not detect carcinogenic activity. No human information available.

Mutagenicity: No information available.

12. ECOLOGICAL INFORMATION

Degradability: (*Technical material*). The element sulfur is a natural component of the environment. Sulfur has been known and used as a pesticide since very early times, and has been registered for pesticide use in the United States since the 1920's. Sulfur is known to be of low toxicity, and poses very little risk if any to human health. The use of sulfur as a pesticide is not an environmental concern,

SULFLO 700 SC

MATERIAL SAFETY DATA SHEET

because it becomes incorporated into the natural sulfur cycle.

ECOTOXICOLOGY:

(All ecotoxicity for technical material)

Birds: Bobwhite Quail: LD₅₀ after 8 days: > 5000 ppm.

Fish: Non-toxic to fish.

Daphnia: *Daphnia magna*. LD₅₀ (48h): > 665 mg/l

Bees: Non-toxic to bees.

Soil micro-organisms & other beneficials:

Worms: LC₅₀ (14days): > 1600 mg/l.

13. DISPOSAL CONSIDERATION

Contaminated absorbents, surplus product (in diluted form), etc., should be buried in approved landfill. Comply with any local legislation applying to waste disposal. Destroy empty container by perforation and flattening and do not use for any other purpose. Burn at incinerator or bury at an approved landfill.

TRIPLE RINSE empty containers in the following manner: Invert the empty container over the spray or mixing tank and allow draining for at least 30 seconds after the flow has slowed down to a drip. Thereafter rinse the container three times with a volume of water equal to a minimum of a third of that of the container. Add the rinsing to the contents of the spray tank before destroying the container in the prescribed manner.

14. TRANSPORT INFORMATION

UN NUMBER: 2902

Road transport ADR/RID:

Class: 9

Packaging group: III

Shipping name: Sulfur (700 g/l)

Maritime Transport IMDG/IMO:

Class: 9

Packing group: III

Shipping name: Sulfur (700 g/l)

15. REGULATORY INFORMATION

Symbol: Xn

Indication of danger: Harmful

Risk phrases:

R22 Harmful if swallowed.

R36/37 Irritating to eyes and respiratory system.

Safety phrases:

S 2 Keep out of reach children.

S 13 Keep away from food, drink and animal feedingstuffs.

S 23 Do not breathe vapour/spray.

S 24/25 Avoid contact with skin and eyes.
S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S46 if swallowed, seek medical advice immediately and show this container or label.

16. OTHER INFORMATION

Packaging: Packed in 1, 5, 10, 20 and 200 litres bottles or drums and labelled according to South African regulations and guidelines.

Disclaimer: The information on this sheet is not a specification; it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage use of the product. It is not applicable to unusual or non-standard uses of the product nor where instructions or recommendations are not followed.

All information is given in good faith but without guarantee in respect of accuracy, and no responsibility is accepted for errors and omissions or the consequence thereof.

END OF DOCUMENT

Compiled: August 1999

Reviewed: March 2019

Revision no.: (2)

Next revision date: March 2024

For detailed information on revisions, contact the Registration holder.