

DUSTING SULPHUR

SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: DUSTING SULPHUR
Other identifier: Sulphur
Recommended use: Fungicide
Restrictions on use: Agriculture

Supplier: Universal Crop Protection (Pty) Ltd.
Co. Reg. No.: 1983/008184/07
PO Box 801,
Kempton Park, 1620, South Africa
Telephone: (011) 396 2233
Fax: (011) 396 4666
Website: www.villacrop.co.za

Emergency telephone numbers:
24 Hr Transport / Spill emergency no:
(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

2. HAZARD IDENTIFICATION

UN GHS, Regulation EC 1272/2008 [EU-GHS/CLP] EU & SANS 10234:2008		
Hazard classes	Hazard categories	H-statements
Physical		
Flammable	Flammable solid 2	H228
Health		
Dermal	Skin Irritation 2	H315

The most important adverse effects:
Physiochemical effects: None known.
Human health effects:
Causes skin irritation.

Label elements:



Signal word: Warning
Hazard statements:
H228: Flammable solid.
H315: Causes skin irritation.

Precautionary statements:

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240: Ground and bond container and receiving equipment.
P264: Wash hands and face thoroughly after handling.
P280: Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.
P302+P352: IF ON SKIN: Wash with plenty of water and non-abrasive soap.
P362+P364: Take off contaminated clothing and wash it before reuse.
P370+P378: In case of fire: Use water spray, standard foam or fog to extinguish.

Other hazards:

None known.

Toxicity:

Classification according to GHS: Category 5

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance / Mixture: Mixture

Composition:

Chemical name	CAS	Conc. (m/v%)	Classification EC 1272/2008
Sulphur (as dusting sulphur)	7704-34-9	95.5 %	Flam. Sol. 2 (H228) Skin Irrit. 2 (H315)

4. FIRST AID MEASURES

Elemental **Sulfur** is moderately irritating to the skin, and airborne dust is irritating to the eyes and the respiratory tract. In hot sunny environments, there may be some oxidation of foliage-deposited **Sulfur** to irritating gaseous **Sulfur** oxides, which are very irritating to the eyes and respiratory tract.

Ingested **Sulfur** powder induces catharsis and has been used medicinally (usually with molasses) for that purpose. Some hydrogen sulfide is formed in the large intestine, and this may present a degree of toxic hazard. However, an adult has survived ingestion of 60 grams.

Inhalation: Remove source of contamination or move victim to fresh air. If breathing has stopped, perform artificial respiration and administer oxygen. Keep person warm and at rest. Treat symptomatically and supportively as and when required. Obtain medical advice if necessary.

Skin contact: Remove contaminated clothing, shoes and leather goods. Gently wipe off excess chemical. Wash skin gently and thoroughly with water and non-abrasive soap. **Seek medical attention if necessary.**

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

Ingestion: Have victim rinse mouth thoroughly with water. Give ½ to 1 glass of water to dilute the material if victim is alert and not convulsing. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomitus, rinse mouth and administer more water. Seek medical advice if necessary.

Advice to the physician: Unless an extraordinary amount of **Sulfur** (several grams) has been ingested shortly prior to treatment, there is probably no need for emptying the stomach or administration of a cathartic. Adsorb ability of **Sulfur** on activated charcoal has not been tested. The most serious consequence of **Sulfur** ingestion is likely to be that of catharsis: dehydration and electrolyte depletion, particularly in children. If diarrhea is severe, oral or intravenous administration of glucose and/or electrolyte solutions may be appropriate.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media: Extinguish small fires with carbon dioxide, dry chemical, sand or standard foam. Water spray, standard foam or fog can be used for larger fires or cooling of unaffected stock.

Unsuitable extinguishing media: None known.

Specific hazards: Dust-air mixtures may ignite or explode. Slight fire hazard when exposed to heat and flame.

Special fire-fighting procedures: Remove spectators from surrounding area. Isolate the fire area and evacuate all personnel downwind of the fire. Avoid inhaling hazardous vapours and fumes from burning materials. Remove container from fire area if possible and without risk. Contain fire control water for later disposal. Use a recommended extinguishing agent for the type of surrounding fire.

Personal protective equipment: Fire may produce irritating vapours or other products of combustion. Fire fighters and others that may be exposed should wear full protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid contact with skin and eyes. Do not inhale fumes.

Protective equipment: Refer to Section 8 for personal protective equipment to be worn during containment and clean-up of a spill involving this product.

Emergency procedures: Evacuate unprotected personnel and animals.

Environmental precautions: Do not allow entering drains or watercourses. When the product contaminates public waters, inform appropriate authorities in accordance with local regulations.

Methods and Materials for containment: Cover with sand or earth to contain material.

Methods and Materials for clean-up: For small spills, collect spilled material with clean shovel. Place material into clean, dry container and cover for subsequent disposal. For large spills, wet down with water and dike for later disposal. Contain spillage and contaminated water for subsequent disposal. Do not flush spilled material into drains. Keep spectators away.

7. HANDLING AND STORAGE

Handling:

Precautions for safe handling: Avoid contact with eyes, prolonged contact with skin, and inhalation of fumes. Use with adequate ventilation. Do not apply directly to areas where surface water is present, or to intertidal areas below the mean high-water mark. Water used to clean equipment must be disposed of correctly to avoid contamination.

General occupational hygiene: Wash hands before eating, drinking, chewing gum, smoking, or using the toilet. Remove clothing immediately if the product gets inside. Then wash skin thoroughly using a non-abrasive soap and put on clean clothing.

Storage:

Conditions for safe storage: Store in its original labeled container in a shaded, well-ventilated area, away from heat, sparks and other sources of ignition. Not to be stored next to foodstuffs and water supplies. Keep out of reach of children and animals. Local regulations should be complied with.

Incompatible substances and mixtures: Refer to product label.

Packaging material: 4 ply paper bags or WPP/PE (Woven polypropylene with Polyethylene inner) or plastic buckets/containers.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Permissible concentration:

No occupational exposure limits have been determined for the significant ingredients in this product.

Engineering Controls:

It is essential to provide adequate ventilation. The measures appropriate for a particular work site depend on how this material is used and on the extent of exposure.

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Ensure that control systems are properly designed and maintained. Comply with occupational safety, environmental, fire, and other applicable regulations.

Personal protective equipment:

Respiratory protection: If engineering controls and work practices are not effective in controlling exposure to this material, then wear approved respiratory protection suitable for protection from dusts and mists of pesticides. Limitations of respirator use specified by the approving agency and the manufacturer must be observed.

Hand protection: Employee must wear protective rubber gloves to prevent contact with this substance.

Eye protection: The use of safety goggles is recommended.

Skin and body protection: Employee must wear appropriate protective (impervious) clothing and equipment to prevent repeated or prolonged skin contact with this substance.

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 powder.

Odour: Pungent odour

Odour threshold: Not available.

pH (1% aqueous dilution):

Melting point: 114.5 °C.

Freezing point: Not available.

Boiling point: 444.6 °C.

Flash point: 207 °C.

Flammability: Not flammable.

Upper / lower explosion limits: Not available.

Vapor pressure (mm Hg): 0.527 mPa (30.4 °C)

Relative Vapour Density: Not available.

Density / Relative density: Not available.

Specific gravity: 2.07

Solubility: Practically insoluble in water. Very slightly soluble in ether and petroleum ether; more readily soluble in hot benzene and acetone.

n-octanol / water partition coefficient: Not available.

Auto-ignition temperature: Not available.

Decomposition temperature: Not available.

Viscosity: Not available

10. STABILITY AND REACTIVITY

Chemical stability: The product is stable for two years at ambient temperature and pressure, under normal storage and handling conditions. Avoid storage under extreme temperatures and conditions. Store below 50°C,

preferably below 30°C, and not for prolonged periods in direct sunlight.

Reactivity: None known.

Possibility of hazardous reactions: Unlikely to occur.

Conditions to avoid: Extreme heat.

Incompatible materials: Incompatible with strong alkalis. Do not mix with oils, due to phytotoxicity.

Hazardous decomposition products: In the presence of strong alkalis, sulfides can be formed.

11. TOXICOLOGICAL INFORMATION

Practically non-toxic to humans and animals.

Calculated according to GHS:

Acute oral LD₅₀: >2000 mg/kg in rats.

Acute oral LD₅₀: >2000 mg/kg in rabbits.

Acute inhalation LC₅₀: > 5.4 mg/l

Skin Irritation: Causes skin irritation.

Eye Damage: Not an eye irritant.

Skin Sensitization: Not classified.

Respiratory Sensitization: Not classified.

Reproductive cell mutagenicity: Not classified.

Carcinogenicity: Not classified.

Reproductive toxicity: Not classified.

Specific target organ toxicity – single exposure: Not classified.

Specific target organ toxicity – repeated exposure: Not classified.

Aspiration hazard: Not classified.

Chronic Effects: Not classified.

POTENTIAL ADVERSE EFFECTS:

Contact with skin: Causes skin irritation.

Other information: Not available.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGY:

Fish:

Non toxic.

Birds:

Acute oral LC₅₀ (8 d) >5000 ppm (bobwhite quail).

Daphnia:

LC₅₀ (48 h, static) >665 mg/l

Algae:

EC₅₀ (72 h) >232 mg/l (*Ankistrodesmus bibrainus*)

Bees:

Non toxic.

Worms:

LC₅₀ (14 d) >1600 mg/l

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13. DISPOSAL CONSIDERATION

Waste: Contaminated absorbents, surplus product (in diluted form), etc., should be buried in approved landfill. Comply with any local legislation applying to waste disposal.

Container: Emptied containers retain vapour and product residues. Observe all labeled safeguards until container is cleaned, reconditioned, or destroyed. Containers must be triple rinsed with water. Containers are not to be reused and should be punctured and disposed of at an approved landfill site. Do not bury, burn or donate the container to any other parties that may use it as a container for food or beverages. Comply with any local legislation applying to disposal.

14. TRANSPORT INFORMATION

UN NUMBER: 1350

Road Transport ADR / ORD:

Class: 4.1

Packaging group: III

UN Proper Shipping Name: Sulphur

Maritime Transport IMDG / IMO:

Class: 4.1

Packaging group: III

UN Proper Shipping Name: Sulphur

Marine pollutant (Y/N): No

Air Transport IATA / ICAO:

Class: 4.1

Packaging group: III

UN Proper Shipping Name: Sulphur

Special / Environmental Precautions: Wedge drums tightly to avoid movement.

Transport in bulk: Refer to MARPOL 73/78, Annex II and the IBC code.

15. REGULATORY INFORMATION

Safety, health and environmental regulations / legislation for the mixture:

OHS 1993 Regulations for Hazardous Chemical Substances.

Relevant information regarding restrictions: None.

EU regulation: Regulation EC1272/2008 (EU-GHS/CLP)

Other national regulations: None.

Chemical Safety Assessment carried out? No

16. OTHER INFORMATION

Packaging: Packed in 1, 2, 5, 10, 20, 25 kg 4 ply paper bags or woven polypropylene (with polyethylene inner) bags labeled according to the South African regulations and guidelines.

Other hazard statements, abbreviations and explanations:

IATA: International Air Transport Association.

IBC: International Bulk Chemical.

ICAO: International Civil Aviation Organization.

IMDG: International Maritime Dangerous Goods

IMO: International Maritime Organization.

LD₅₀ value: The median lethal dose or the amount of a toxic agent that is sufficient to kill 50 percent of a population within a certain period of time.

OEL/RL: Occupational exposure limit-recommended limit.

TWA: Time-weighted average – The average exposure over a specified period, usually a nominal eight hours.

ST/STEL: Short-term exposure limits.

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 and 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

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For detailed information on revisions, contact the Registration holder.