

Material Safety Data Sheet SULFUR 80 WDG

Section 1 - Product Identification

Synonyms : Elemental Sulfur
Molecular Weight : 32.064 g/mol
Chemical Formula : S₈
Company Identification : Tradeasia International Pte. Limited
Address : 133 Cecil Street # 12-03 Keck Seng Tower, Singapore
Tel: +65-6227 6365
Fax: +65-6225 6286
Email: contact@chemtradeasia.com

Recommended use of the chemical and restrictions on use

The product is used in agricultural industries and commercial use, particularly in :

- Fungicide, insecticide, miticide manufacturing,
- Nutrient additive for crops and
- Soil pH adjustment

Section 2 – Composition/Information on Ingredients

The product contains greater than 99.9 percent (%) cream of tartar (potassium bitartrate)

Chemical Name	EC No/CAS No	Purity, %
Sulfur 80 WDG	7704-34-9	80

Section 3 – Hazards Identification

3.1 Classification of the substance according to GHS

Cream of Tartar is not classified as dangerous

Classification according to EC REG. No. 1272/2008: Not qualified

Classification according to REG. 67/548 / EEC and 1999/45 / EC: Not qualified

Physiochemical hazards: None identified **Hazards for humans:** None Identified

Dangerous for animals and the environment: None Identified

Section 4 – First-Aid Measures

4.1. Description of first aid measures

Eye	Thoroughly wash the eyes with water for at least 15 minutes
Skin	Wash the contaminated skin with Soap and water. If irritation persist seek medical attention

Inhalation Remove the victim from the source of exposure. If the person is affected by the products of Sulphur decomposition, give the fresh air immediately and seek the medical attention. If breathing is irregular, administer artificial respiration and the Oxygen if necessary.

Swallowed Amount swallowed incidental to normal handling procedures and use are not expected to cause injury, Burning sensation and diarrhea may occur.

4.2 Personal protection for first aid responders

Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

4.3 Symptoms caused by exposure

Inhalation May cause respiratory irritation and coughing.

Skin Unlikely to cause irritation.

Eye May cause eye irritation, tearing, pain and redness.

Swallowed Unlikely to cause irritation.

4.4 Medical attention and special treatment

Treat symptomatically.

Section 5 – Fire Fighting Measures

5.1 Extinguishing Media

Suitable Combustible in nature. Preferred extinguishing media are Water, Carbon Dioxide, dry chemical, Foam, water Fog. Unsuitable extinguishing

5.2 Specific hazards arising from the chemical

Fire may involve toxic gases like Sulphur dioxides etc.

5.3 Specific protective equipment and precautions for fire fighters

Self-contained breathing apparatus (SCBA) in positive pressure mode and full protective clothing (PPE) must be worn in case of fire.

5.4 General fire hazards

Water spray may be used to cool down heat exposed containers.

Section 6 – Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid Contact with skin and eyes. Do not breathe in fumes

6.2 Environmental precautions

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

6.3 Occupational Spill

For small dry spills, sweep up with damp earth or sand or other suitable absorbents, such as sawdust, taking care not to raise a dust cloud. Place the material into a clean, dry container and cover for subsequent disposal. In situations where product comes in contact with water, contain contaminated water for later disposal. Do not flush spilled material into drains. For large spills contact the manufacturer.

Contain liquid far ahead of spill. Contain spillage and contaminated water and soil for subsequent disposal. Do not flush spilled material into drains. Keep spectators away and upwind.

Section 7 – Handling and Storage

7.1. Precautions for safe Handling

Keep product in original tightly closed container. Remove sources of naked flame or sparks. Avoid contact with eyes, prolonged contact with skin, and inhalation of dust and vapour. Use with adequate ventilation. 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. 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.

7.2. Conditions for safe storage, including any incompatibilities

Store bagged material only on pallets no more than 3 meter high. Provide access aisles for each 2 rows. Loose bags could not be stacked more than 2x2x2 meters. Dense packaging of unvented stacks of bags or boxes may lead to product decomposition posing a fire hazard. Decomposition produces a foul odor. Check for hot containers and immediately remove to open areas for disposal. Keep out of reach of unauthorized persons, children and animals. Store in its original labeled container in shaded, well ventilated area, away from heat, sparks and other sources of ignition. Not to be stored next to foodstuffs and water supplies. Local regulations should be complied with.

Section 8 – Exposure Controls/Personal Protection

8.1 Occupational exposure limits (OEL's)

No OEL's established

8.2 Biological limit values

No biological exposure values noted for this product.

8.3 Appropriate 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. Ensure that control systems are properly designed and maintained. Only spark –resistant equipment should be used. Comply with occupational safety, environmental, fire and other applicable regulations.

8.4 Individual protection measures, for example personal protective equipment (PPE)

Eye protection

The use of safety goggles is recommended

Skin protection

Wear impervious gloves.

Respiratory protection

An approved full-face respirator suitable for protection from dusts and mists of pesticides is required. Limitations of respirator use specified by the approving agency and the manufacturer must be observed. Comply with occupational safety, environmental, fire, and other applicable regulations.

Section 9 – Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance:	Yellow to brownish Solid Powder / Granules
Odor:	Characteristic
Acidity / Alkalinity or pH Value:	8.5. To 9.5 suspension.
Solubility in water:	Dispersible in water
Bulk density:	1.6-1.9 g/cc
Flash point:	160°C
Compatibility:	Can compatible with many common pesticides.

Section 10 – Stability and Reactivity

Stability:	Conditions to avoid Incompatibility
Hazardous Decomposition:	Stable under normal, dry storage conditions. But corrosive when wet or humid. Unstable in the presence of strong oxidizing agents, forming Sulphur dioxide. No special precautions other than good housekeeping of chemicals. Avoid humid, acid media and oxidizing agents. Incompatible with oxidation materials and acids. The Product is compatible with many other pesticides when used at normal rates. However, a compatibility test is required before using with other products. Do not physically mix concentrate directly with other herbicides or pesticide concentrates; always dilute first.
Decomposition products:	Thermal and humid decomposition products may emit oxides of Sulphur.

Section 11 – Toxicological Information

LD50 Acute Oral	>5000 mg/kg in rats
LD50 Acute Dermal	> 2000 mg/kg in rats
Skin Irritation	None or mild irritation to skin
Eye Irritation	Moderate irritation.
Dermal sensitization	No data available.
Mutagenicity	Results taken from animal studies suggest that the product is not magnetic

Section 12 – Ecological Information

Bees	Non Toxic to bees
Birds	Non Toxic to Birds
The Aquatic Organisms	Fish Toxicity: Practically nontoxic Daphnia toxicity: to aquatic organisms.

Section 13 – Disposal Considerations

13.1. Pesticide Disposal

Contaminated absorbents, used containers, surplus product, etc., should be burnt at > 1000oC in an incinerator, preferably designed for pesticide disposal, or buried in an approved landfill. Comply with local legislation applying to waste disposal.

13.2. Container Disposal

1. Emptied containers retain product residues. Observe all labelled safeguards until container is cleaned, reconditioned, or destroyed. Combustible containers should be disposed of in pesticide incinerators or buried in an approved landfill.
2. Noncombustible containers must first be triple-rinsed with water. Containers that are not to be reused and should be punctured and transported to a scrap metal facility for recycling or disposal.

Section 14 – Transport Information

ADG	Not regulated as dangerous goods.
IMDG	Not regulated as dangerous goods.
Special Precautions	SULPHUR Environmental risk slightly toxic fungicide.

Section 15 – Regulatory Information

15.1. Safety, health and environmental regulations

This Safety Data Sheet was prepared in accordance with Safe Work Australia's Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals.

15.2 Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)

Not allocated

AICS All components are listed in the Australian Inventory of Chemical Substances.

Section 16 : Additional Information

16.1 NFPA Ratings: Health: 0 Flammability: 0 Reactivity: 0

Label Hazard Warning: As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes and clothing.

Label Precautions: None.

Label First Aid: Not applicable.

16.2. Disclaimer of Liability

The information in this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its accuracy, reliability or completeness. The conditions or methods of handling, storage use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use.

This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.