

Material safety data sheet

SULPHUR 80 % WDG

1. IDENTIFICATION OF COMPANY & PRODUCT

Product Name : SULPHUR 80 % WDG
Chemical Name : Elemental Sulphur
Brand Name : **Kem-Sulf**
Users : Fungicide
Manufacturer : KIVI CHEMICAL INDIA
Address : Plot No. C-1, 1023, GIDC Panoli Industrial Estate.
Tal. Ankleshwar, Dist. Bharuch (Gujarat)-394116
Tele Fax Number : +91 6352018151 svaraenterprise@gmail.com

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Cas #	Percent Or Content(W/W)
Sulphur	7704-34-9	80.00 % w/w
Dispersing agent	-	8.00 % w/w
Wetting agent	-	2.00 %
China clay	-	10.00 % w/w

3. HEALTH HAZARDS IDENTIFICATION

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

Other information : Non Toxic in general

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4. FIRST AID MEASURES

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.

Eyes Contact: Immediately flush the eyes with gently flowing, lukewarm water or saline solution for 20 minutes, occasionally lifting the upper and lower lids. Obtain medical attention if necessary. Inhalation Remove source of contamination or move victim to fresh air. Keep victim warm and at rest. Treat symptomatically and supportively. Obtain medical advice if necessary.

Ingestion: Wash mouth out with water. If vomiting occurs, give more water to drink to assist dilution. Other information Treat symptomatically and supportively as and when required.

Antidote: No specific antidote is known, Treat symptomatically.

5. FIRE FIGHTING MEASURES

Flash point : 160°C

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

Special exposure

Hazards : Fire may involve toxic gases like Sulphur dioxides etc.

6. ACCIDENTAL RELEASE MEASURES

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

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

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.

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7. HANDLING AND STORAGE

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.

Storage: 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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure limits: No occupational limits are established.

Engineering control Measures: 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.

Respirator: 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.

Clothing: Employee must wear appropriate protective (impervious) clothing, boots and equipment to prevent repeated or prolonged skin contact with this substance. Do not wear leather clothing.

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

Eye protection: The use of safety goggles is recommended.

Emergency eye wash: 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

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immediate work area for emergency use.

9. 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.

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.

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

12. ECOLOGICAL INFORMATION

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

13. DISPOSAL CONSIDERATIONS

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

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.

14. TRANSPORT INFORMATION

UN No.	: 1350 IMCO
Class	: 4.1 IMDG PG 4174
Packing Group UN	
Pack group	: III
Proper Shipping Name	: SULPHUR Environmental risk slightly toxic fungicide.

15. REGULATORY INFORMATION

Hazard Classification:

Hazard Symbol H1; F-1; R 0

Risk phrases

& Safety Phrases Sweep spilled substance into containers, if appropriate & moisten first to prevent dusting (Extra personal protection P2 filter respirator for harmful particles)

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16. OTHER INFORMATION

- It is excellent fungicide composed of Sulphur 80% WDG in Water dispersible granules form effectively used to control range of fungi in variety of crops.
- The information contained in this safety date sheet is given in good faith. It is accurate to our best of knowledge and belief and represents the most up to date information. The information given in this data sheet does not constitute or replace the users own assessment of work place risk as required by other health and safety legislation. **KIVI CHEMICAL INDIA.** will not be liable for any claims or damages arising out of use of this information.