

Material Safety Data Sheet

Effective Date: 02-MAR-2000  
Product: WETTABLE SULPHUR

I. IDENTIFICATION

Chemical Name: SULFUR  
Chemical Family: ELEMENT//SULFUR  
Formula: (S8)  
Synonyms: CITRUSPERSE SULPHUR  
CAS Number: SEE INGREDIENT STATEMENT, SECTION III.  
EPA Number: 5905-289

II. PHYSICAL DATA

Boiling Point: 440 DEGREES F.  
Freezing Point: NOT APPLICABLE  
Spec Gravity: 1.072 GMS/CC  
Vapor Pressure: NOT APPLICABLE  
Vapor Density: NOT APPLICABLE  
Solubility: <0.5%  
Volatiles: <.25%  
Evaporation: NOT APPLICABLE  
Melting Point: 234 DEGREES F.  
Appearance: LIGHT YELLOW POWDER, SULFUR ODOR.

III. INGREDIENTS

| Material                                      | CAS Number | Percent | TLV            | Hazard                      |
|-----------------------------------------------|------------|---------|----------------|-----------------------------|
| POWDERED SULFUR                               | 07704-34-9 | 90.00   | 8 PPM<br>(EYE) | MILD SKIN & EYE<br>IRRITANT |
| KAOLIN CLAY, DISPERSING AND<br>WETTING AGENTS |            | 10.00   | 15<br>MG/KG    | NUISANCE DUST               |

IV. FIRE AND EXPLOSION HAZARD

Flash Point: >150 DEGREES F.  
Autoignition Temp: 450 DEGREES F.  
Flammable Limit: NOT APPLICABLE  
Extinguishing Media: SMALL FIRES - DRY CHEMICAL, WATER SPRAY OR FOAM.  
LARGE FIRES - WATER SPRAY, FOG OR FOAM.  
Special Fire Fight Proc: USE POSITIVE PRESSURE SELF-CONTAINED BREATHING  
APPARATUS AND FULL FIRE FIGHTING CLOTHING.  
AVOID STRAIGHT STREAMS OF WATER WHICH WILL  
SCATTER MOLTEN SULPHUR AND DUST.  
Fire and Expl Hazard: EASILY IGNITIBLE, COMBUSTIBLE SOLID. DUST OR  
VAPOR FORMS EXPLOSIVE MIXTURES WITH AIR.  
BURNING SULPHUR RESULTS IN IRRITATING OR

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POISONOUS GAS.  
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V. HEALTH HAZARD  
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Carcinogen Information: NONE CURRENTLY KNOWN

ACUTE EFFECTS OF OVER EXPOSURE  
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Swallowing: ACUTE ORAL LD50 (RATS) = >5.050 MG/KG.  
PRACTICALLY NON-TOXIC.  
Skin Absorption: ACUTE DERMAL LD50 (RABBITS) = >2,020 MG/KG.  
SLIGHTLY TOXIC.  
Inhalation: ACUTE INHALATION LC50 (RATS) = >5.49 MG/L.  
Skin contact: SLIGHTLY IRRITATING TO EXPOSED SKIN. TOXICITY  
CATEGORY IV(RABBITS). NOT A SKIN SENSITIZER  
(GUINEA PIGS).  
Eye Contact: MILDLY IRRITATING TO THE EYES. TOXICITY  
CATEGORY III (RABBITS).  
Chronic Effects: NONE CURRENTLY KNOWN.  
Other Hazard: NONE CURRENTLY KNOWN.

EMERGENCY AND FIRST AID PROCEDURES  
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Swallowing: IF CONSCIOUS AND ALERT, GIVE 1-3 GLASSES OF  
WATER AND INDUCE VOMITING. OBTAIN MEDICAL  
ATTENTION IMMEDIATELY.  
Skin: WASH SKIN THOROUGHLY WITH SOAP AND WATER. IF  
IRRITATION DEVELOPS, CONSULT A PHYSICIAN.  
Inhalation: MOVE VICTIM TO FRESH AIR. IF BREATHING BECOMES  
DIFFICULT, OBTAIN MEDICAL ATTENTION  
IMMEDIATELY.  
Eyes: FLUSH EYES WITH WATER FOR 15 MINUTES, HOLDING  
EYELIDS OPEN. IF IRRITATION DEVELOPS, CONSULT A  
PHYSICIAN.  
Notes to Physician: IN THE EVENT OF AN ADVERSE RESPONSE, TREATMENT  
SHOULD BE DIRECTED TOWARD CONTROL OF THE  
SYMPTOMS.

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VI. REACTIVITY  
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Stability: Stable  
Conditions to Avoid: PROTECT FROM SPARKS AND OPEN FLAMES.  
Polymerization: Will Not Occur  
Conditions to Avoid: NONE CURRENTLY KNOWN.  
Incompatibility material: HAZARDOUS IN CONTACT WITH OXIDIZING MATERIALS,  
FORMING EXPLOSIVE MIXTURES.  
Hazardous Combustion: SULPHUR DIOXIDE UNDER FIRE CONDITIONS.

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VII. SPILL OR LEAK PROCEDURES  
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Spill or Leak Proc: ISOLATE SPILL AREA FROM HEAT AND FLAMES. COVER THE SPILL WITH CLAY OR SAND. SWEEP UP MATERIAL AND PLACE IN A CHEMICAL WASTE CONTAINER. FLUSH SPILL AREA WITH WATER, ABSORB AND PLACE IN SAME CONTAINERS WITH OTHER MATERIAL.

Waste Disposal Method: THIS MATERIAL MUST BE DISPOSED OF ACCORDING TO FEDERAL, STATE, OR LOCAL PROCEDURES UNDER THE RESOURCE CONSERVATION AND RECOVERY ACT.

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VIII. SPECIAL PROTECTION INFORMATION  
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Respiration: NIOSH/MSHA APPROVED DUST MASK.  
Ventilation: MECHANICAL (GENERAL) SPARK PROOF.  
Gloves: IMPERVIOUS  
Eyes: CHEMICAL WORKERS GOGGLES.  
Other: EYE WASH STATION, IMPERVIOUS APRON AND FOOTWEAR.

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IX. SPECIAL PRECAUTIONS  
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Special precaution: KEEP OUT OF REACH OF CHILDREN. DO NOT STORE WITH FOOD, FEED, OR OTHER MATERIAL TO BE USED OR CONSUMED BY HUMANS OR ANIMALS. DO NOT CONTAMINATE WATER SUPPLIES, LAKES, STREAMS, OR PONDS.

Other precaution: PROTECT AGAINST PHYSICAL DAMAGE. STORE IN COOL, WELL-VENTILATED AREA. SEPARATE FROM CHLORATES, NITRATES OR OTHER OXIDIZING MATERIALS. GUARD AGAINST DUST ACCUMULATION OR ASPIRATION OF DUST INTO AIR.

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X. SHIPPING INFORMATION  
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Shipping name: NOT REGULATED BY DOMESTIC MODES OF TRANSPORTATION.(SEE SPECIAL PROVISION # 30, 49 CFR 172.102)

Hazard Class: NONE  
Identification No: NONE

Helena Chemical Company  
PH: 901-761-0050  
CHEMTREC: 800-424-9300

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Labels Required: NONE REQUIRED  
Placarding: NONE REQUIRED  
Freight Class: FUNGICIDES, N.O.I., OTHER THAN POISON(NMFC ITEM  
102120, CLASS 60)

| Chemical Name  | Equivalent R.Q. |
|----------------|-----------------|
| -----          | -----           |
| NOT APPLICABLE | NOT APPLICABLE  |

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XI. GENERAL PRODUCT INFORMATION  
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National Fire Protection Association Rating:  
(Rating level: 4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum)

Health: 1                      Fire: 1                      Reactivity: 0

S.A.R.A. Title III Hazard Classification: (Yes/No)

|                               |                             |
|-------------------------------|-----------------------------|
| Immediate (Acute) Health: Y   | Delayed (Chronic) Health: N |
| Sudden Release of pressure: N | Fire: Y                     |
| Reactive: N                   |                             |

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Mail inquiries to: 225 Schilling Blvd., Suite 300 Collierville, TN 38017  
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