

FISHER

FREY SCIENTIFIC -- SULFUR:ROLL,SUBLIMED PWD.,PRECIPITATED,79182 - SULFUR,TECHNICAL
MATERIAL SAFETY DATA SHEET

N: 6810002646577

Manufacturer's CAGE: 6U218

Part No. Indicator: A

Part Number/Trade Name: SULFUR:ROLL,SUBLIMED PWD.,PRECIPITATED,79182

General Information

Item Name: SULFUR,TECHNICAL
Company's Name: ~~FREY SCIENTIFIC~~ FISHER
Company's Street: 905 HICKORY LANE
Company's City: MANSFIELD
Company's State: OH
Company's Country: US
Company's Zip Code: 44905
Company's Emerg Ph #: 419-589-1900/800-424-9300 (CHEMTREC)
Company's Info Ph #: 419-589-9905/716-226-6177/334-4222
Record No. For Safety Entry: 003
Tot Safety Entries This Stk#: 004
Status: SE
Date MSDS Prepared: 09DEC94
Safety Data Review Date: 06JUL95
Supply Item Manager: CX
MSDS Preparer's Name: MICHAEL RASZEJA
MSDS Serial Number: BXCNG
Specification Number: NONE
ec Type, Grade, Class: NONE
azard Characteristic Code: F7
Unit Of Issue: BT
Unit Of Issue Container Qty: 5.0 LBS
Type Of Container: BOTTLE
Net Unit Weight: 5.0 LBS
NRC/State License Number: NOT RELEVANT

Ingredients/Identity Information

Proprietary: NO
Ingredient: SULFUR
Ingredient Sequence Number: 01
Percent: 100
NIOSH (RTECS) Number: WS4250000
CAS Number: 7704-34-9
OSHA PEL: NOT ESTABLISHED
ACGIH TLV: NOT ESTABLISHED
Other Recommended Limit: NONE RECOMMENDED

Physical/Chemical Characteristics

Appearance And Odor: YELLOW POWDER, CRYSTALS OR ROLLS - CHARACTERISTIC
SULFUR ODOR
Boiling Point: 832F,444C
Melting Point: 233F - 246F
apor Pressure (MM Hg/70 F): <.0001@68F
pecific Gravity: 1.92 - 2.07
Evaporation Rate And Ref: NOT RELEVANT

Solubility In Water: INSOLUBLE
Percent Volatiles By Volume: NEGLIG
Viscosity: NOT RELEVANT
Corrosion Rate (IPY): UNKNOWN
Autoignition Temperature: 450F

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Fire and Explosion Hazard Data
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Flash Point: 405F,207C
Flash Point Method: CC
Lower Explosive Limit: 35 G/M3
Upper Explosive Limit: 1400 G/M3
Extinguishing Media: USE WATER SPRAY OR FOG. FOR SMALL FIRE USE SAND OR
ADDITIONAL SULFUR. USE WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS.
Special Fire Fighting Proc: WEAR PROTECTIVE CLOTHING AND NIOSH-APPROVED
SELF-CONTAINED BREATHING APPARATUS. AVOID STRAIGHT STREAM OF WATER WHICH
WILL SCATTER MOLTEN SULFUR AND DUST.
Unusual Fire And Expl Hazrds: DUST OR VAPOR FORMS EXPLOSIVE MIXTURES WITH
AIR. IT EMITS TOXIC GASES OF SULFUR OXIDES.

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Reactivity Data
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Stability: YES
Cond To Avoid (Stability): EXCESSIVE HEAT
Materials To Avoid: STRONG OXIDIZING AGENTS SUCH AS NITRATES AND
CHLORATES, STRONG BASES
Hazardous Decomp Products: SULFUR DIOXIDE GAS
Hazardous Poly Occur: NO
Conditions To Avoid (Poly): NOT RELEVANT

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Health Hazard Data
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LD50-LC50 Mixture: LD50 (ORAL, RAT) IS NOT KNOWN.
Route Of Entry - Inhalation: YES
Route Of Entry - Skin: NO
Route Of Entry - Ingestion: NO
Health Haz Acute And Chronic: TARGET ORGANS:EYE AND RESPIRATORY TRACT.
ACUTE- SULFUR IS ESSENTIALLY NON-TOXIC EITHER THROUGH INGESTION, INHALATION
OR SKIN CONTACT. THERE ARE, HOWEVER, SOME INDIVIDUALS WHO MAY BE ALLERGIC.
SULFUR IS AN EYE IRRITANT. DUST MAY IRRITATE UPPER RESPIRATORY TRACT.
CHRONIC- UNKNOWN.
Carcinogenicity - NTP: NO
Carcinogenicity - IARC: NO
Carcinogenicity - OSHA: NO
Explanation Carcinogenicity: NONE
Signs/Symptoms Of Overexp: IRRITATION
Med Cond Aggravated By Exp: PERSONS WITH SENSITIVITY TO SULFUR
Emergency/First Aid Proc: GET MEDICAL HELP IF SYMPTOMS PERSIST.
INHALED:REMOVE TO FRESH AIR. PROVIDE CPR/OXYGEN IF NEEDED. EYES:FLUSH WITH
FLUSH WITH WATER FOLLOWED BY WASHING SKIN WITH SOAP & WATER. ORAL:IF
CONSCIOUS, DRINK TWO TO THREE GLASSES OF WATER OR MILK. GET MEDICAL
ATTENTION IMMEDIATELY.

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Precautions for Safe Handling and Use
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Steps If Matl Released/Spill: WEAR PROPER PROTECTIVE CLOTHING AND
EQUIPMENTS. VENTILATE AREA. SWEEP UP AND PLACE IN A SUITABLE CONTAINER FOR

RECYCLING OR DISPOSAL. AVOID GENERATING DUST. POWDERED SULFUR SHOULD NOT BE SCATTERED NOR ALLOWED TO ACCUMULATE ON SURFACES FROM SPILLS.

Neutralizing Agent: NOT RELEVANT

Waste Disposal Method: DISPOSE OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS. DISPOSE OF IN A SANITARY LANDFILL AFTER MIXING 3 PARTS BY WEIGHT OF CALCIUM CARBONATE TO NEUTRALIZE THE SLOW GENERATION OF SULFURIC ACID.

Precautions-Handling/Storing: STORE IN COOL, DRY, VENTILATED PLACE AWAY FROM FIRE, SPARK, INCOMPATIBLE MATERIALS. ALL ELECTRIC MOTORS IN THE AREA SHOULD BE OF EXPLOSIVE PROOF TYPE.

Other Precautions: AVOID BREATHING DUSTS. DO NOT GET IN EYES, ON SKIN OR ON CLOTHING. WASH THOROUGHLY AFTER HANDLING. KEEP OUT OF REACH OF CHILDREN. USE IN WELL VENTILATED AREA. WASH CONTAMINATED CLOTHING BEFORE REUSE. FOR LABORATORY USE ONLY.

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Control Measures
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Respiratory Protection: NONE SHOULD BE NEEDED IN NORMAL LABORATORY HANDLING. IF DUSTY CONDITIONS PREVAIL, WORK IN FUME HOOD OR WEAR A NIOSH-APPROVED RESPIRATOR FOR DUST OR FUMES.

Ventilation: USE GENERAL OR LOCAL EXHAUST VENTILATION TO MEET TLV REQUIREMENTS.

Protective Gloves: RUBBER

Eye Protection: CHEMICAL GOGGLES/SAFETY GLASSES

Other Protective Equipment: PROTECTIVE CLOTHING AS NEEDED TO PREVENT PROLONGED/REPEATED SKIN CONTACT, EYE WASH STATION AND SAFETY SHOWER.

Work Hygienic Practices: OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. WASH THOROUGHLY BEFORE EATING, DRINKING/SMOKING.

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Transportation Data
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Trans Data Review Date: 95187
DOT PSN Code: NSI
DOT Proper Shipping Name: SULFUR
DOT Class: 4.1
DOT ID Number: UN1350
DOT Pack Group: III
DOT Label: FLAMMABLE SOLID
IMO PSN Code: OED
IMO Proper Shipping Name: SULPHUR,
IMO Regulations Page Number: 4174
IMO UN Number: 1350
IMO UN Class: 4.1
IMO Subsidiary Risk Label: -
IATA PSN Code: XHO
IATA UN ID Number: 1350
IATA Proper Shipping Name: SULPHUR
IATA UN Class: 4.1
IATA Label: FLAMMABLE SOLID
AFI PSN Code: XHO
AFI Prop. Shipping Name: SULPHUR
AFI Class: 4.1
AFI ID Number: UN1350
AFI Pack Group: III
I Special Prov: A1
AFI Basic Pac Ref: 8-7
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Disposal Data

Label Data

Label Required: YES
Technical Review Date: 06JUL95
MFR Label Number: NOT RELEVANT
Label Status: F
Common Name: SULFUR:ROLL,SUBLIMED PWD.,PRECIPITATED,79182
Signal Word: CAUTION!
Acute Health Hazard-Slight: X
Contact Hazard-Slight: X
Fire Hazard-Slight: X
Reactivity Hazard-None: X
Special Hazard Precautions: TARGET ORGANS:EYE & RESPIRATORY TRACT. ACUTE-SULFUR IS ESSENTIALLY NON-TOXIC EITHER THROUGH INGESTION, INHALATION/SKIN CONTACT. IT IS AN EYE IRRITANT. DUST MAY IRRITATE UPPER RESPIRATORY TRACT. CHRONIC- UNKNOWN. STORE IN COOL, DRY, VENTILATED PLACE AWAY FROM FIRE, SPARK, INCOMPATIBLES. SWEEP UP SPILL & PLACE IN SUITABLE CONTAINER. FIRST AID- GET MEDICAL HELP IF SYMPTOMS PERSIST. INHALED:REMOVE TO FRESH AIR. PROVIDE CPR/OXYGEN IF NEEDED. EYES:FLUSH WITH WATER FOR 15 MINUTES. HOLD EYELIDS OPEN. SKIN:FLUSH WITH WATER. THEN, WASH SKIN WITH SOAP & WATER. ORAL:IF CONSCIOUS, DRINK 2-3 GLASSES OF WATER OR MILK. GET MEDICAL ATTENTION IMMEDIATELY.
Protect Eye: Y
Protect Skin: Y
Label Name: FREY SCIENTIFIC
Label Street: 905 HICKORY LANE
Label City: MANSFIELD
Label State: OH
Label Zip Code: 44905
Label Country: US
Label Emergency Number: 419-589-1900/800-424-9300 (CHEMTREC)
Year Procured: 1995