

FLINN SCIENTIFIC INC -- SULFUR HEXAFLUORIDE -- 6830-00-985-7283  
===== Product Identification =====

Product ID:SULFUR HEXAFLUORIDE  
MSDS Date:07/13/1996  
FSC:6830  
NIIN:00-985-7283  
Status Code:A  
MSDS Number: CHVWW  
=== Responsible Party ===  
Company Name:FLINN SCIENTIFIC INC  
Address:910 W WILSON ST  
Box:219  
City:BATAVIA  
State:IL  
ZIP:60510-1606  
Country:US  
Info Phone Num:708-879-6900/800-452-1261  
Emergency Phone Num:800-452-1261/800-424-9300(CHEMTREC)  
CAGE:8U825  
=== Co  
ntractor Identification ===  
Company Name:FLINN SCIENTIFIC INC  
Address:770 N RADDANT RD  
Box:231  
City:BATAVIA  
State:IL  
ZIP:60510-2471  
Country:US  
Phone:630-879-6900; 800-452-1261  
CAGE:8U825

===== Composition/Information on Ingredients =====

Ingred Name:SULFUR HEXAFLUORIDE  
CAS:2551-62-4  
RTECS #:WS4900000  
Fraction by Wt: 99.8%MIN  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:1000 PPM  
ACGIH TLV:1000 PPM; 9596

===== Hazards Identification =====

LD50

LC50 Mixture:TLV IS 1000 PPM.

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:TARGET ORGANS: CENTRAL NERVOUS SYSTEM, RESPIRATORY TRACT. ACUTE- ACTS AS AN ASPHYXIAN. INHALATION OF OXYGEN-DEFICIENT ATMOSPHERE CAN CAUSE HEADACHE, SHORTNESS OF BREATH, DIZZINESS, RINGING IN EARS. AT HIGH CONCENTRATIONS MAY CAUSE COMA & DEATH. INGESTION/SKIN IS NOT LIKELY. CHRONIC- MAY CAUSE CNS DEPRESSION.

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Explanation of Carcinogenicity:NONE.

Effects of Overexposure:INCREASED BREATHING AND PULSE RATES, MUSCULAR INCOORDINATION, FAULTY JUDGMENT, DISORIENTATION, EYE IRRITATION, BREATHING DIFFICULTIES, PAIN, EXCESSIVE TEARING, HEADACHE, DIZZINESS, NAUSEA, UNCONSCIOUSNESS, DEATH

Medical Condition Aggravated by Exposure:PERSONS WITH PRE-EXISTING EYE PROBLEMS OR IMPAIRED CENTRAL NERVOUS SYSTEM OR RESPIRATORY FUNCTION MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THIS PRODUCT.

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===== First Aid Measures =====

First Aid:GET MEDICAL ATTENTION IF SYMPTOMS PERSIST. EYES: IMMEDIATELY FLUSH WITH WARM WATER FOR 15 MINUTES. HOLD EYELIDS OPEN. INHALED: MOVE TO FRESH AIR. PROVIDE OXYGEN/CPR IF NEEDED. SKIN/ORAL UNLIKELY (GAS) . RESCUERS SHOULD WEAR NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS & PERSONAL PROTECTIVE EQUIPMENT.

===== Fire Fighting Measures =====

Flash Point:NOT RELEVANT

Lower Limits:

NOT RELEVANT

Upper Limits:NOT RELEVANT

Extinguishing Media:WATER SPRAY, CARBON DIOXIDE, FOAM OR DRY CHEMICAL FOR SURROUNDING FIRE.

Fire Fighting Procedures:WEAR NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING. USE WATER FROM DISTANCE TO COOL FIRE-EXPOSED CYLINDERS.

Unusual Fire/Explosion Hazard:CYLINDERS MAY EXPLODE IN HEAT OF FIRE. FIRE MAY PRODUCE IRRITATING AND POISONOUS GASES.

===== Accidental Release Measures =====

Spi

II Release Procedures:WEAR PERSONAL PROTECTIVE EQUIPMENT. EVACUATE ALL PERSONNEL FROM RELEASE AREA. STOP LEAK IF POSSIBLE. VENTILATE AREA ESPECIALLY LOW PLACES. PRODUCT WILL DISPERSE ITSELF. SPILLS MAY HAVE TO BE REPORTED TO FEDERAL AND/OR LOCAL AUTHORITIES.

Neutralizing Agent:NOT RELEVANT

===== Handling and Storage =====

Handling and Storage Precautions:STORE CYLINDERS UPRIGHT AND SECURE IN WELL VENTILATED AREA. DO NOT STORE ABOVE 125F/52C.

KEEP AWAY FROM

INCOMPATIBLE MATERIALS.

Other Precautions:DO NOT DEFACE CYLINDERS OR LABELS. HANDLE CYLINDERS WITH PROPER CAUTION. USE A SUITABLE HAND TRUCK FOR CYLINDER MOVEMENT. USE A FIRST-IN FIRST-OUT SYSTEM. AVOID BREATHING GAS. WASH HANDS AFTER HANDLIN G CYLINDERS.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:WEAR A NIOSH-APPROVED POSITIVE-PRESSURE SELF-CONTAINED BREATHING APPARATUS OR AIR-SUPPLIED RESPIRATOR IF ABOVE T

LV.

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

Protective Gloves:LEATHER FOR HANDLING CYLINDERS

Eye Protection:SAFETY GLASSES WITH SIDE SHIELD/GOGGLES

Other Protective Equipment:SAFETY SHOES, COVERALLS, EYE WASH STATION MAY BE NECESSARY.

Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES.

Supplemental Safety and Health

===== Physical/Chemical Properties =====

HCC:G3

NRC/State Lic

Num:NOT RELEVANT

Vapor Density:5.11

Spec Gravity:NOT RELEVANT

Viscosity:NOT RELEVANT

Evaporation Rate & Reference:NOT RELEVANT

Solubility in Water:5.4 ML/KG 1 ATM, 77F

Appearance and Odor:COLORLESS, ODORLESS GAS

Percent Volatiles by Volume:99.8

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZERS, ORGANOMETALLICS, CHEMICALLY ACTIVE METALS (SODIUM, POTASSIUM, BARIUM, POWDERED MAGNESIUM AND ALUMINUM)

Stability Co

ndition to Avoid:EXCESSIVE HEAT, OPEN FLAMES, MOISTURE

Hazardous Decomposition Products:MAY FORM SF<sub>4</sub>, S<sub>2</sub>F<sub>2</sub>, S<sub>2</sub>F<sub>10</sub> WITH SULFUR

TETRAFLUORIDE PREDOMINATING. IF MOISTURE PRESENT, MAY FORM HYDROGEN  
SULFIDE & HF.

===== Disposal Considerations =====

Waste Disposal Methods:MOVE LEAKY CYLINDER TO OUTDOORS OR VENTILATED  
HOOD. ALLOW GAS TO DISCHARGE AT MODERATE RATE. DISPOSAL SHOULD BE  
MADE IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS  
AN

D REGULATIONS. CYLIND ERS CAN BE RETURNED TO SUPPLIER.

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