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
=== Contractor 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

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========== 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 ASPHYXIANT. INHALATION OF OXYGEN-DEFICIENT ATMOSPHERE CAN CAUSE HEADACHE, SHORTNESS OF BREATH, DIZZINESS, RINGING IN EARS. A T HIGH CONCENTRATIONS MAY CAUSE COMA & DEATH. IN
GESTION/SKIN IS NOT LIKLEY. CHRONIC- MAY CAUSE CNS DEPRESSION.
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, UNCONSCIOUS NESS, DEATH
Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING EYE PROBLEMS OR IMPAIRED CENTRAL NERVOUS SYSTEM OR RESPIRATORY FUNCTION MAY B
E MORE SUSCEPTIBLE TO THE EFFECTS OF THIS PRODUCT.

========== 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 Measure
s ==========

Flash Point:NOT RELEVENT
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 CLOTHINGS. 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.

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

Spill 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 RELEVENT

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

Handling and Storage Precautions:STORE CYLINDERS UPRIGHT AND S
ECURE 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-CONTAIN
ED BREATHING APPARATUS OR AIR-SUPPLIED RESPIRATOR IF ABOVE TLV.
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

========== Physic
al/Chemical Properties ==========

HCC:G3
NRC/State Lic Num:NOT RELEVENT
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 Condition to Avoid:EXCESSIVE HEAT, OPEN FLAMES, MOISTURE
Hazardous Decomposition Products:MAY FORM SF4, S2F2, S2F10 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 AND REGULATIONS. CYLIND ERS CAN BE RETURNED TO SUPPLIER.