

SULFUR HEXAFLUORIDE

MSDS Number

BHFBQ

National Stock Number

6830-00-985-7283

Product Name

SULFUR HEXAFLUORIDE

Manufacturer

UNION CARBIDE CORP LINDE DIV

Product Identification

Product ID:SULFUR HEXAFLUORIDE

MSDS Date:02/01/1986

FSC:6830

NIIN:00-985-7283

MSDS Number: BHFBQ

Responsible Party

UNION CARBIDE CORP LINDE DIV

39 OLD RIDGEBURY RD

DANBURY , CT 06817-0001

US

Emergency Phone: 203-794-2000

Info Phone: 203-794-2000

Cage: 36346

Contractor

UNION CARBIDE CORP LINDE DIV

DANBURY, CT 06817-0001

US

800-822-4357; 304-744-3487

Cage: 36346

Ingredients

SULFUR HEXAFLUORIDE

CAS: 2551-62-4

RTECS: WS4900000

Fraction By Weight: 100%

OSHA PEL1000 PPM

ACGIH TLV: 1000 PPM; 9192

Hazards

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Health Hazards Acute and Chronic:INGST: UNLIKELY ROUTE BUT FROSTBITE OF THE LIPS/MOUTH MAY RESULT FROM CONTACT. SKIN/EYE: NO HARMFUL EFFECTS FROM VAPOR. LIQUID MAY CAUSE FROSTBITE INHAL:

ASPHYXIAN. HIGH CONCENTRATIONS MAY CAUSE

HEADACHES,DROWINESS,DIZZINESS,EXCITATION, EXCESS

SALIVATION,VOMITING,UNCONSCIOUSNESS & POSSIBLE DEATH

Effects of Overexposure:DECOMPOSITION PRODUCTS GENERATED AT HIGH TEMPERATURES MAY BE IRRITATING.

Medical Cond Aggravated by Exposure:OVEREXPOSURE IS UNLIKELY TO AGGRAVATE EXISTING MEDICAL CONDITIONS.

First Aid

First Aid:SKIN: IMMEDIATELY WARM FROSTBITE AREA W/WARM WATER(NOT TO EXCEED 105F).IN CASE OF MASSIVE EXPOSURE,REMOVE CLOTHING WHILE SHOWERING W/WARM WTR.CALL PHYSICIAN. EYE: IMMEDIATELY FLUSH EYES THOROUGHLY W/WARM WATER FOR 15 MINS. CALL PHYSICIANINHL: REMOVE TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION IF NOT BREATHING. GIVE OXYGEN IF BREATHING IS DIFFICULT. CALL PHYSICIAN.

Fire Fighting

Flash Point:NA
Lower Limits:NA
Upper Limits:NA
Extinguishing Media:SULFUR HEXAFLUORIDE CANNOT CATCH FIRE. USE MEDIA APPROPRIATEFOR SURROUNDING FIRE.
Fire Fighting Procedures:EVACUATE ALL PERSONNEL FROM DANGER AREA. IMMEDIATELY DELUGE CONTAINERS W/WATER SPRAY FROM MAXIMUM DISTANCE UNTIL COOL,THEN MOVE CONTNRS AWAY FROM FIRE AREA.
Unusual Fire/Explosion Hazard:GAS CANNOT CATCH FIRE. CONTAINER MAY RUPTURE DUE TO HEAT OF FIRE. NO PART OF CONTAINER SHOULD BE SUBJECTED TO TEMP. HIGHER THAN 125F (52C).

Accidental Release

Spill Release Procedures:REMOVE ALL PERSONNEL TO SAFE DISTANCE. SHUT OFF LEAK IF W/O RISK. VENTL AREA OF LEAK/MOVE LEAKING CONTNR TO WELL VENTL AREA. USE SELF CONTAINING BREATHING APPARATUS IF NEEDED.

Handling

Handling and Storage Precautions:NEVER WORK ON A PRESSURIZED SYSTEM. IF THERE IS A LEAK CLOSE CYLINDER VALVE,BLOW DOWN SYSTEM BY VENTING TO A SAFE PLACE, THEN REPAIR THE LEAK.

Exposure Controls

Respiratory Protection:SELECT IN ACCORDANCE WITH OSHA 29 CFR 1910.134. RESPIRATORS SHALL BE ACCEPTABLE TO MSHA AND NIOSH
Ventilation:LOCAL EXHAUST PREFERRED. MECHANICAL IS ACCEPTABLE
Protective Gloves:PREFERRED FOR CYLINGER HANDLING
Eye Protection:SELECT WITH OSHA 29 CFR 1910.133
Other Protective Equipment:METATARSAL SHOES FOR CYLINDER HANDLING.
SELECT IN ACCORDANCEW/OSHA 29 CFR 1910.132 & 1910.133
Supplemental Safety and Health
NK

Chemical Properties

HCC:G3
Boiling Pt:B.P. Text:-82.8F
Vapor Pres:320 PSIG
Vapor Density:5.11 @ 20C
Spec Gravity:1.88 @ -50.8C
Evaporation Rate & Reference:HIGH
Solubility in Water:NEGLIGIBLE
Appearance and Odor:COLORLESS, ODORLESS GAS AT NORMAL TEMPERATURE AND PRESSURE
Percent Volatiles by Volume:100

Stability

Stability Indicator/Materials to Avoid:YES
EXPLODES VIOLENTLY IN CONTACT WITH DISILANE
Stability Condition to Avoid:TEMPERATURE IN EXCESS OF 800C.
Hazardous Decomposition Products:THERMAL DECOMPOSITION MAY PRODUCE TOXIC FUMES OF FLUORIDES AND SULFUR OXIDES.

Disposal

Waste Disposal Methods:PREVENT WASTE FROM CONTAMINATING SURROUNDING

AREA.KEEP PERSONNEL AWAY. DISCARD ANY PRODUCT,RESIDUE, DISPOSABLE CONTAINERS/LINERS IN ACCEPTABLE MANNERIN COMPLIANCE WITH FEDERAL, STATE, & LOCAL REGULA TIONS.

Disclaimer (provided with this information by the compiling agencies):
This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.