

SULFUR HEXAFLUORIDE, G-80

MSDS Number

BLBTK

National Stock Number

6830-00N016730

Product Name

SULFUR HEXAFLUORIDE, G-80

Manufacturer

AIRCO DIV OF THE BOC GROUP INC

Product Identification

Product ID:SULFUR HEXAFLUORIDE, G-80

MSDS Date:08/02/1989

FSC:6830

NIIN:00N016730

MSDS Number: BLBTK

Responsible Party

AIRCO DIV OF THE BOC GROUP INC

575 MOUNTAIN AVE

MURRAY HILL , NJ 07974

US

Emergency Phone: 800-424-9300 (CHEMTREC)

Info Phone: 201-464-8100

Cage: HO879

Contractor

AIRCO INC, AIRCO INDUSTRIAL GASES DIV.

MURRAY HILL, NJ 07974-2006

US

800-424-9300(CHEMTREC)

Cage: 00741

Ingredients

SULFUR HEXAFLUORIDE

CAS: 2551-62-4

RTECS: WS4900000

Fraction By Weight: 99%

OSHA PEL1000 PPM

ACGIH TLV: 1000 PPM; 9192

A LEAK CAN RESULT IN FIRE, EXPLOSION, ASPHY, OR

RTECS: 9999999ZZ

STORE IN COOL, DRY, WELL-VENT AREA AWAY FROM HEAVILY

RTECS: 9999999ZZ

CYL ARE STORED TO EXCEED 130F. CYL SHOULD BE STORED

RTECS: 9999999ZZ

KNOCKED OVER. FULL & EMPTY CYL SHOULD BE SEGREGATED.

RTECS: 9999999ZZ

FULL CYL BEING STORED FOR EXCESS PERIODS OF TIME.

RTECS: 9999999ZZ

CAUSE A SLOW DECOMP TO SF*2,SF*4,S*2F*2 &

RTECS: 9999999ZZ

SOF2, SO2F2 WILL BE FORMED AS WELL AS OTHER TOXIC

RTECS: 9999999ZZ

Hazards

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.

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

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

Health Hazards Acute and Chronic:INHAL: SULFUR HEXAFLUORIDE HAS A LOW ORDER OF TOX. IT CAN,HOWEVER ACT AS A SIMPLE ASPHY BY DISPLACING NEC AMTS OF O*2 TO SUPPORT LIFE. EFTS OF EXPOS TO HIGH CONC ARE HDCH, DIZ, LABORED BRTHG & EVENTUA L UNCON. MAINTAIN O*2 LEVELS >19% AT SEA LEVEL.

Explanation of Carcinogenicity:NOT RELEVANT

Effects of Overexposure:SEE HEALTH HAZARDS

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

First Aid

First Aid:CONCIOUS PERS SHOULD BE ASSISTED TO UNCONTAMD AREA/INHALE FRESH AIR. QUICK REMOVAL FROM CONTAMD AREA IS MOST IMPORTANT. UNCON PERS SHOULD BE MOVED TO UNCONTAMD AREA/GIVEN ATRF RESP & SUPP O*2. FURTHER TREATMENT SHOULD BE SYMPTOMATIC/SUPPORTIVE. INGEST: CALL MD IMMED . PROMPT MD ATTEN IS MADATORY IN ALL CASES OF OVEREXP TO SULFUR HEXAFLUORIDE. RESCUE PERS SHOULD BE EQUIPED W/NIOSH/MSHA SCBA.

Fire Fighting

Flash Point:NONE

Lower Limits:NONE

Upper Limits:NONE

Extinguishing Media:NONFLAMMABLE. USE APPROPRIATE EXTINGUISHING MEDIA FOR SURROUNDING FIRE.

Fire Fighting Procedures:WEAR NIOSH/MSHA APPROVED SCBA & FULL PROTECTIVE EQUIPMENT .

Unusual Fire/Explosion Hazard:ELECTRICAL ARCING IN PRESENCE OF O*2 WILL BREAK DOWN SULFUR HEXAFLUORIDE YIELDING TOXIC THIONYL FLUORIDE COMPOUNDS.

Accidental Release

Spill Release Procedures:EVACUTE ALL PERSONNEL FROM AFFECTED AREA. USE APPROP PROT EQUIP. IF LEAK IS IN USER'S EQUIP, PURGE PIPING W/INERT GAS PRIOR TO ATTEMPTING REPAIRS. IF LEAK IS IN CNTNR OR VALVE CONTACT CHEMTREC FOR EME R ASSISTANCE OR CLOSEST AIRCO LOCATION. Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

Handling

Handling and Storage Precautions:USE ONLY IN WELL-VENT AREAS.VALVE PROT CAP MUST REMAIN IN PLACE UNLESS CNTNR IS SECURED W/VALVE OUTLET PIPED TO USE POINT.PROT CYL FROM PHYS DAM(ING3)

Other Precautions:DO NOT DRAG,SLIDE OR ROLL CYL. USE SUITABLE HAND TRUCK FOR CYL MOVEMENT. USE PRESS REDUCING REGULATOR WHEN CONNECTING CYL TO LOWER PRESS (HEAT CYL BY ANY MEANS TO INC REASE DISCHARGE RATE OF PROD (SUPP DATA)

Exposure Controls

Respiratory Protection:NIOSH/MSHA APPRVD POS PRESS AIR LINE W/MASK OR SCBA SHOULD BE AVIALABLE FOR EMERGENCY USE.

Ventilation:HOOD W/FORCED VENT. USE LOCAL EXHAUST TO PREVENT ACCUM ABOVE EXPOSURE LIMITS.

Protective Gloves:PROTECTIVE GLOVES OF ANY MATERIAL.

Eye Protection:CHEMICAL WORKERS GOGGLES .

Other Protective Equipment:SAFETY SHOES.

Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

HNDLG/STOR PREC: FROM CYL. USE CHECK VALVE OR TRAP IN DISCHARGE LINE TO PREVENT HAZ BACK FLOW INTO CYL. DO NOT REFILL COMPRESSED GASS

EXCEPT BY QUALIFIED PRODUCERS OF SAME. NEVER CARRY COMPRESSED GAS CYL OR CNTNR OF GAS IN CRYOGENIC LIQUIDFORM IN ENCLOSED SPACE SUCH AS CAR TRUNK,VAN OR STATION WAGON.(SEE ING 2)

Chemical Properties

HCC:G3

Boiling Pt:B.P. Text:-83F,-64C

Melt/Freeze Pt:M.P/F.P Text:-59F,-51C

Vapor Pres:319.1

Vapor Density:5.13

Solubility in Water:NEGLIGIBLE

Appearance and Odor:COLORLESS & ODORLESS GASS

Stability

Stability Indicator/Materials to Avoid:YES

PRODUCT HAS BEEN REPORTED TO EXPLODE VIOLENTLY UPON CONTACT WITH DISILANE

Stability Condition to Avoid:NONE

Hazardous Decomposition Products:SULFUR HEXAFLUORIDE IS ONLY STABLE AT ELEVATED TEMPS(400F)IF CNTND IN ALUMINUM,STAINLESS STEEL,COPPER,BRASSES (ING 8)

Disposal

Waste Disposal Methods:DO NOT ATTEMPT TO DISPOSE OF WASTE OR UNUSED QTYS. RETURN IN SHIPPING CNTNR PROPERLY LABELED W/ANY VALVE OUTLET PLUGS OR CAPS SECURE & VALVE PROTECTION CAP IN PLACE TO AIRCO FOR PROPER DISPOSAL.

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