

ALLIED-SIGNAL CORP,ENGINEERED MATERIALS DIV -- ACCUDRI SF6-SULFUR
HEXAFLUORIDE -- 6830-00-985-7283

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Product Identification
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Product ID:ACCUDRI SF6-SULFUR HEXAFLUORIDE
MSDS Date:02/01/1997
FSC:6830
NIIN:00-985-7283
MSDS Number: BJPNC
=== Responsible Party ===
Company Name:ALLIED-SIGNAL CORP,ENGINEERED MATERIALS DIV
Address:101 COLUMBIA ROAD
Box:1053
City:MORRISTOWN
State:NJ
ZIP:07962-1053
Country:US
Info Phone Num:201-455-4157
Emergency Phone Num:973-455-2000; 24 HRS/DAY,7DAYS/WEEK
Resp. Party Other MSDS Num.:FLUO-0006
Preparer's Name:NOT PROVIDED.
CAGE:40991

=== Contractor Identification ===
Company Name:ALLIED-SIGNAL CORP ENGINEERED MATERIALS DIV
Address:PARK AVE AND COLUMBIA RD
Box:City:MORRISTOWN
State:NJ
ZIP:07960
Country:US
Phone:201-455-2000
CAGE:40991
Company Name:HONEYWELL INTL INC RESEARCH AND TECHNOLOGY
Address:101 COLUMBIA ROAD
Box:1053
City:MORRISTOWN
State:NJ
ZIP:07962-1053
Country:US
Phone:973-455-2000
Contract Num:SPO450-00-M-B603
CAGE:0PK95

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Composition/Information on Ingredients
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Ingrid Name:SULFUR HEXAFLUORIDE
CAS:2551-62-4
RTECS #:WS4900000
= Wt:100.
Other REC Limits:NONE
OSHA PEL:1000 PPM
ACGIH TLV:1000 PPM

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Hazards Identification
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LD50 LC50 Mixture:LD50 (IV RABBIT) = 5790 MG/KG
Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO
Reports of Carcinogenicity:NTP:UNKNOWN IARC:UNKNOWN OSHA:NO
Health Hazards Acute and Chronic:POTENTIAL HEALTH HAZARD: SKIN: DIRECT

CONTACT WITH THE LIQUEFIED MATERIAL OR COMPRESSED GAS MAY CAUSE FROSTBITE INJURY. EYES: DIRECT CONTACT WITH THE LIQUEFIED MATERIAL OR COMPRESSED GAS MAY CAUSE FROSTBITE INJURY. INHALATION: PURE SF6 IS OF A LOW ORDER OF TOXICITY, BUT MAY ACT AS AN ASPHYXANT IF OXYGEN IS REDUCED TO BELOW 16%, AS INDICATED BY PALENESS AND POSSIBLE CYANOSIS (BLUE SKIN). INGESTION : NOT APPLICABLE (GAS AT NORMAL CONDITIONS). CHRONIC: NONE KNOWN.

Explanation of Carcinogenicity:OSHA: NOT LISTED.

Effects of Overexposure:SKIN: DIRECT CONTACT WITH THE LIQUEFIED MATERIAL OR COMPRESSED GAS MAY CAUSE FROSTBITE INJURY. EYES: DIRECT CONTACT WITH THE LIQUEFIED MATERIAL OR COMPRESSED GAS MAY CAUSE FROSTBITE INJURY. INHALATION : PURE SF6 IS OF A LOW ORDER OF TOXICITY, BUT MAY ACT AS AN ASPHYXANT IF OXYGEN IS REDUCED TO BELOW 16%, AS INDICATED BY PALENESS AND POSSIBLE CYANOSIS (BLUE SKIN). INGESTION: NOT APPLICABLE (GAS AT NORMAL CONDITIONS).

Medical Cond Aggravated by Exposure:NOT PROVIDED.

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

First Aid:SKIN: WASH EXPOSED AREA EXTREMELY THOROUGHLY, BUT GENTLY IN CASES OF FROSTBITE-LIKE INJURY, WITH SOAP AND WATER. CONTACT A PHYSICIAN.IF IRRITATION OR PAIN PERSISTS. EYE: FLUSH EYES WITH COPIOUS AMOUNTS OF WARM WATER FOR AT LEAST 15 MINUTES.CONTACT A PHYSICIAN.IF IRRITATION, PAIN, SWELLING, EXCESSIVE TEARING OR PHOTOPHOBIA (PAINFUL SENSITIVENESS TO STRONG LIGHT) PERSISTS. INHALATION: IMMEDIATELY RE MOVE TO FRESH AIR. IF BREATHING HAS STOPPED, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN PROVIDED A QUALIFIED OPERATOR IS AVAILABLE. CONTACT A PHYSICIAN. INGESTION: NOT APPLICABLE.

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

Flash Point:NOT APPLICABLE.

Extinguishing Media:IF INVOLVED IN FIRE, USE DRY CHEMICAL OR CARBON DIOXIDE FOR SMALL FIRES/WATER SPRAY, FOG OR REGULAR FOAM FOR LARGE FIRES

Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS. COOL CYLINDERS EXPOSED TO HEAT OF FIRE WITH FLOODING AMOUNTS OF WATER. APPLY WATER FROM AS FAR A DISTANCE AS POSSIBLE.

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

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

Spill Release Procedures:ALWAYS WEAR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT. EVACUATE UNPROTECTED PERSONNEL. STAY UPWIND. PROTECTED PERSONNEL MAY SHUT OFF LEAK IF WITHOUT RISK. PRODUCT WILL DISPERSE ITSELF. SPILLS AND RELEASES MAY HAVE TO BE REPORTED TO FEDERALAND/OR LOCAL AUTHORITIES.

Neutralizing Agent:NOT RELEVANT

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

Handling and Storage Precautions:PROTECT CYLINDERS FROM PHYSICAL DAMAGE, HEAT, AND SUNLIGHT. STORE IN AN AREA OF LOW FIRE RISK. FOR ADDITIONAL INFORMATION, SEE COMPRESSED GAS ASSOCIATION PAMPHLET, "SAFE HANDLING OF COMPRESSED GASES IN CONTAINERS," 7TH ED., 1984.

Other Precautions:ALWAYS WEAR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT. OBSERVE PRECAUTIONS ON CYLINDER LABEL. PROTECT CYLINDERS FROM PHYSICAL DAMAGE.

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

Respiratory Protection:SELF-CONTAINED BREATHING APPARATUS OR
AIR-SUPPLIED RESPIRATOR IF NEEDED. NOTE THAT AN ACCIDENTAL RELEASE
OF SF6 MAY REDUCE THE OXYGEN CONTENT OF THE LOCAL ATMOSPHERE BELOW
16%.

Ventilation:GENERAL MECHANICAL VENTILATION

Protective Gloves:RUBBER GLOVES

Eye Protection:SAFETY GLASSES

Other Protective Equipment:COVERALLS

Work Hygienic Practices:NONE

Supplemental Safety and Health

NONE.

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

HCC:G3

NRC/State Lic Num:NOT RELEVANT

Boiling Pt:=-63.9C, -83.F

B.P. Text:SUBLIMES @ -63.9C, 1 A

Melt/Freeze Pt:=-50.8C, -59.4F

M.P/F.P Text:-50.8C @ 32.5 PSIA

Decomp Temp:Decomp Text:NOT PROVIDED.

Vapor Pres:NOT APPLICABLE (GAS)

Vapor Density:5.1@1ATM

Spec Gravity:NOT APPLICABLE (GAS)

pH:NOT APPLICABLE.

Viscosity:NOT APPLICABLE.

Evaporation Rate & Reference:N/R (MATERIAL IS A GAS)

Solubility in Water:SLIGHT

Appearance and Odor:COLORLESS, ODORLESS GAS

Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES

AVOID LEAKAGE OF A LIQUEFIED GAS SUCH AS SF6 ONTO WATER OR CONTACT WITH
HOT REACTIVE METALS.

Stability Condition to Avoid:NOT PROVIDED.

Hazardous Decomposition Products:GASES:FLUORIDES OF SULFUR (SULFURYL
FLUORIDE, THIONYL FLUORIDE AND THIONYL TETRAFLUORIDE, PULMONARY
IRRITANTS.) SOLIDS: METAL FLUORIDES AND SULFIDES WHICH CAN BE
HIGHLY TOXIC.

===== Toxicological Information =====

Toxicological Information:NONE

===== Ecological Information =====

Ecological:NOT APPLICABLE (INORGANIC).

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

Waste Disposal Methods:NOT A RCRA HAZARDOUS WASTE. THIS INFORMATION
OFFERED HERE IS FOR THE PRODUCT AS SHIPPED. USE AND/OR ALTERATIONS
TO THE PRODUCT SUCH AS MIXING WITH OTHER MATERIALS MAY
SIGNIFICANTLY CHANGE THE CHARACTERISTICS OF THE MATERIAL AND ALTER
THE RCRA CLASSIFICATION AND THE PROPER DISPOSAL METHOD.

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MSDS Transport Information
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Transport Information:CLASS 2.2 - NONFLAMMABLE GAS, UN 1080.

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Regulatory Information
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SARA Title III Information:311/312: IMMEDIATE PRESSURE. THE FOLLOWING
INGREDIENTN IS SARA 313 "TOXIC CHEMICAL": SULFUR HEXAFLUORIDE
2551-62-4, 100%.

Federal Regulatory Information:MATERIAL IS LISTED ON THE TSCA
INVENTORY.

State Regulatory Information:NONE

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