

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

===== Product Identification =====

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:07962-105

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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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Ingred 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 FRO STBITE INJURY. INHALATION: PURE SF6 IS OF A LOW ORDER OF TOXICITY, BUT MAY ACT AS AN ASPHYXIANT 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 ASPHYXIANT 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.

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First Aid Measures
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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 AMOUNT S 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. NOT

E 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 L
EAKAGE 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 Informatio

n =====

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.

===== MSDS Transport Information =====

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

===== Regulatory Information =====

SARA Title III Information:311/312: IMMEDIATE PRESSURE. THE FOLLOWING INGREDIENT 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

Disclaimer (provided with this information by the compiling agencies):

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