

AIRGAS -- SULFUR HEXAFLUORIDE -- 6830-00-817-2342

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Product Identification  
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Product ID:SULFUR HEXAFLUORIDE

MSDS Date:06/01/1990

FSC:6830

NIIN:00-817-2342

MSDS Number: BTJBZ

=== Responsible Party ===

Company Name:AIRGAS

Address:100 MATSONFORD ROAD

City:RADNOR

State:PA

ZIP:19087

Country:US

Info Phone Num:215-687-5253

Emergency Phone Num:215-687-5253

CAGE:AIRGA

=== Contractor Identification

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Company Name:AIRGAS

Address:100 MATSONFORD ROAD, 5 RADNOR CORP CNTR

City:RADNOR

State:PA

ZIP:19087

Country:US

Phone:215-687-5253

CAGE:AIRGA

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Composition/Information on Ingredients  
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Ingred Name:SULFUR HEXAFLUORIDE

CAS:2551-62-4

RTECS #:WS4900000

Fraction by Wt: 100% %

Other REC Limits:NONE RECOMMENDED

OSHA PEL:1000 PPM

ACGIH TLV:1000 PPM; 9394

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Hazards Identification  
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LD50 LC50 Mixture:TLV = 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:SULFUR HEXAFLUORIDE IS NONTOXIC, BUT THE LIBERATION OF A LARGE AMOUNT IN A CONFINED AREA COULD DISPLACE THE AMOUNT OF OXYGEN IN AIR NECESSARY TO SUPPORT LIFE.

Explanation of Carcinogenicity:PRODUCT CONTAINS NO INGREDIENTS

CURRENTLY CLASSIFIED AS CARCINOGENIC BY NTP, IARC OR OSHA.

Effects of Overexposure:EFFECTS OF EXPOSURE TO HIGH CONCENTRATIONS SO AS TO DI

SPLACE THE OXYGEN IN AIR NECESSARY FOR LIFE ARE HEADACHE, DIZZINESS, LABORED BREATHING AND EVENTUAL UNCONSCIOUSNESS AND DEATH.

Medical Cond Aggravated by Exposure:PERSONS IN ILL HEALTH WHERE SUCH ILLNESS WOULD BE AGGRAVATED BY EXPOSURE TO SULFUR HEXAFLUORIDE SHOULD NOT BE ALLOWED TO WORK WITH OR HANDLE THESE PRODUCTS.

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

First Aid:INHALATION: CONSCIOUS PERSONS SHOULD BE ASSISTED TO AN UNCONTAMINATED AREA AND INHALE FRESH AIR. QUICK REMOVAL FROM THE CONTAMINATED AREA IS MOST IMPORTANT. UNCONSCIOUS PERSONS SHOULD BE REMOVED, GIVE N MOUTH-TO-MOUTH RESUSCITATION AND SUPPLEMENTAL OXYGEN. FURTHER TREATMENT SHOULD BE SYMPTOMATIC AND SUPPORTIVE.

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

Flash Point:NONFLAMMMABLE

Lower Limits:NOT GIVEN

Upper Limits:NOT GIVEN

Extinguishing Media:NONFLAMMABLE. USE MEDIA SUITABLE FOR SURROUNDING FIRE.

Fire Fighting Procedures:IF CYLI NDERS ARE INVOLVED IN A FIRE, SAFELY RELOCATE OR KEEP COOL WITH WATER SPRAY.

Unusual Fire/Explosion Hazard:NONE SPECIFIED BY MANUFACTURER.

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

Spill Release Procedures:EVACUATE ALL PERSONNEL FROM AFFECTED AREA. USE APPROPRIATE PROTECTIVE EQUIPMENT. IF LEAK IS IN USER'S EQUIPEMNT, BE CERTAIN TO PURGE PIPING WITH AN INERT GAS PRIOR TO ATTEMPTING REPAIRS. IF LEAK IS IN CONTAINER OR VALVE, CONTACT SUPPLIER.

Neutralizi

ng Agent:NONE SPECIFIED BY MANUFACTURER.

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Handling and Storage  
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Handling and Storage Precautions:PROTECT CYLINDERS FROM PHYSICAL DAMAGE. STORE IN COOL, DRY, WELL-VENTILATED AREA AWAY FROM HEAVILY TRAFFICKED AREAS AND EMERGENCY EXITS.

Other Precautions:DO NOT ALLOW TEMPERATURE WHERE CYLINDERS ARE STORE TO EXCEED 130F. CYLINDERS SHOULD BE STORED UPRIGHT AND FIRMLY SECURED TO PREVENT FALLING OR BEING KNOCKED OVER. FULL AND EMPTY CYLINDERS

SHOULD BE SEGREGATED. USE A FIRST IN-FIRST OUT.

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Exposure Controls/Personal Protection  
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Respiratory Protection:POSITIVE PRESSURE AIR LINE WITH MASK OR SELF-CONTAINED BREATHING APPARATUS SHOULD BE AVAILABLE FOR EMERGENCY USE.

Ventilation:HOOD WITH FORCED VENTILATION. LOCAL EXHAUST TO PREVENT ACCUMULATION ABOVE THE TWA.

Protective Gloves:ANY MATERIAL

Eye Protection:SAFETY GOGGLES OR GLASSES

Other Protective Equipment:SAFETY SHOES

Work Hygienic Practices:

WASH WITH SOAP AND WATER AFTER HANDLING PRODUCT AND BEFORE EATING DRINKING OR SMOKING.

Supplemental Safety and Health

ELECTRICAL ARCING IN THE PRESENCE OF OXYGEN WILL BREAK DOWN SULFUR HEXAFLUORIDE YIELDING TOXIC THIONYL FLUORIDE COMPOUNDS. VALVE PROTECTION CAPS MUST REMAIN IN PLACE UNLESS CONTAINER IS SECURED WITH VALVE OUTLET PIPED TO USE POINT. DO NOT DRAG, SLIDE OR ROLL CYLINDERS. USE A SUITABLE HANDTRUCK FOR CYLINDER MOVEMENT.

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Physical/Chemical Properties  
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Physical/Chemical Properties

HCC:G3

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

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

Vapor Pres:319 PSIA

Vapor Density:< 1

Spec Gravity:NOT GIVEN

Evaporation Rate & Reference:N/A GAS

Solubility in Water:VERY SLIGHTLY

Appearance and Odor:COLORLESS, ODORLESS GAS

Percent Volatiles by Volume:100 %

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Stability and Reactivity Data  
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Stability Indicator/Materials to Avoid:YES

METALS OTHER THAN ALUMINUM, STAINLESS STEEL, COPPER AND BRASSES

OR

SILVER CAUSE SLOW DECOMPOSITION, DISILANE.

Stability Condition to Avoid: STABLE ONLY AT ELEVATED TEMPERATURES (>400F) IF CONTAINED IN ALUMINUM, STAINLESS STEEL, COPPER AND BRASSES OR SILVER.

Hazardous Decomposition Products: SF<sub>2</sub>, S<sub>2</sub>F<sub>2</sub>, SF<sub>4</sub>, S<sub>2</sub>F<sub>10</sub>, SOF<sub>2</sub>, SO<sub>2</sub>F<sub>2</sub>

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

Waste Disposal Methods: DO NOT ATTEMPT TO DISPOSE OF WASTE OR LARGE QUANTITIES. RETURN IN THE SHIPPING CONTAINER PROPERLY LABELED WITH ANY VALVE OUTLET PLUGS OR CAPS SECURED AND VALVE PROTECTION CAP IN PLACE TO YOUR SUPPLIER .

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