

AIR PRODUCTS AND CHEMICALS INC. -- SULFUR HEXAFLUORIDE -- 6635-00-022-0365

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Product Identification
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Product ID:SULFUR HEXAFLUORIDE

MSDS Date:10/01/1986

FSC:6635

NIIN:00-022-0365

MSDS Number: BMTTS

=== Responsible Party ===

Company Name:AIR PRODUCTS AND CHEMICALS INC.

Address:7201 HAMILTON BLVD

City:ALLENTOWN

State:PA

ZIP:18195-1501

Country:US

Info Phone Num:215-481-4911

Emergency Phone

Num:800-523-9374/800-322-9092(PA)

CAGE:00742

=== Contractor Identification ===

Company Name:AIR PRODUCTS AND CHEMICALS INC

Address:7201 HAMILTON BLVD

Box:City:ALLENTOWN

State:PA

ZIP:18195-1501

Country:US

Phone:800-345-3148/ 800-752-1597

CAGE:00742

Company Name:STAVELEY INSTRUMENTS INC

Address:421 N QUAY

Box:City:KENNEWICK

State:WA

ZIP:99336-7735

Country:US

Phone:509-735-7550

Contract Num:SP0440-00-M-DC18

CAGE:29192

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Composition/Information on Ingredients
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Ingred Nam

e:SULFUR HEXAFLUORIDE
CAS:2551-62-4
RTECS #:WS4900000
Other REC Limits:NONE SPECIFIED
OSHA PEL:1000 PPM
ACGIH TLV:1000 PPM
ACGIH STEL:1250 PPM

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===== Hazards Identification =====

LD50 LC50 Mixture:NOT PROVIDED
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:EFFECTS OF EXPOSURE TO HIGH
CONCENTRATIONS WHICH DISPLACE THE OXYGEN IN THE AIR NECESSARY FOR
LIFE ARE HEADACHE, DIZZINESS, LABORED BREATHING AND EVENTUAL
UN
CONSCIOUSNESS.
Effects of Overexposure:EFFECTS OF EXPOSURE TO HIGH CONCENTRATIONS
WHICH DISPLACE THE OXYGEN IN THE AIR NECESSARY FOR LIFE ARE
HEADACHE, DIZZINESS, LABORED BREATHING AND EVENTUAL
UNCONSCIOUSNESS.
Medical Cond Aggravated by Exposure:NOT PROVIDED

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

First Aid:PROMPT MEDICAL ATTENTION IS REQUIRED IN ALL CASES OF
OVEREXPOSURE TO SULFUR HEXAFLUORIDE. RESCUE PERSONNEL SHOULD BE
EQUIPPED WITH APPROPRI
ATE PROTECTIVE EQUIPMENT (SELF-CONTAINED
BREATHING APPARATUS, ETC.) TO PREVENT UNNECESSARY EXPOSURE.
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
MOVED TO AN UNCONTAMINATED AREA, GIVEN MOUTH-TO-MOUTH RESUSCITATION
AND SUPPLEMENTAL OXYGEN. FURTHER TREATMENT SHOULD BE SYMPTOMATIC
AND SUPPORTIVE.

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

Extinguishing Media:NONFLAMMABLE. INERT GAS.
Fire Fighting Procedures:IF POSSIBLE WITHOUT RISK, MOVE CYLINDERS AWAY
FROM FIRE AREA. FROM A SAFE DISTANCE COOL CYLINDERS WITH A WATER
SPRAY UNTIL WELL AFTER FIRE IS OUT.
Unusual Fire/Explosion Hazard:CYLINDERS EXPOSED TO HEAT OR FLAMES MAY
VENT RAPIDLY OR EXPLODE.

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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 EQUIPMENT, BE CERTAIN TO PURGE PIPING WITH AN INERT GAS PRIOR TO ATTEMPTING REPAIRS. IF LEAK IS IN CONTAINER OR CONTAINER VALVE, CALL THE "800" EMERGENCY PHONE NUMBER.

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

Handling and Storage Precautions:PROTECT CYLINDERS FROM PHYSICAL DAMAGE. STORE IN A COOL, DRY, WELL VENTILATED AREA, AWAY FROM HEAVILY TRAVELED AREAS AND EMERGENCY EXITS. DO NOT

ALLOW THE

TEMPERATURE WHERE CYLINDERS ARE STORED TO EXCEED 125F (52C). CYLINDERS SHOULD BE STORED UPRIGHT AND FIRMLY SECURED.

Other Precautions:USE ONLY IN A WELL VENTILATED AREA. VALVE PROTECTION CAPS MUST BE IN PLACE UNLESS CYLINDER IS SECURED WITH VALVE OUTLET PIPED TO USE POINT. DO NOT DRAG, SLIDE OR ROLL CYLINDERS. USE A SUITABLE HAND TRUCK FOR CYLINDER MOVEMENT. USE A PRESSURE REDUCING REGULATOR WHEN CONNECTING CYLINDER TO LOWER PRESSURE.

==== Exposure

Controls/Personal Protection =====

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:NOT PROVIDED

Supplemental Safety and Health

PART NUMBER OF STAVELEY INST

RUMENTS INC: 65B461. GAS DENSITY AT 70F, 1

ATM: 0.382 LB/FT³ (6.15 KG/M³).

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

HCC:G3

Boiling Pt:=-63.7C, -83.F

B.P. Text:SUBLIMATION POINT

Melt/Freeze Pt:=-50.5C, -58.9F

Decomp Temp:Decomp Text:NOT PROVIDED

Vapor Pres:16177 @ 70F/21.1C

Vapor Density:5.105 @70F

Spec Gravity:89.83 LB/FT³/1.439 @ 59F

Solubility in Water:NEGLIGIBLE

Appearance and Odor:COLORLESS, ODORLESS GAS.

Corrosion Rate:NOT PROVIDED

==== Stabi

lity and Reactivity Data =====

Stability Indicator/Materials to Avoid: YES

METALS OTHER THAN ALUMINUM, STAINLESS SEEL, COPPER AND BRASSES OR SILVER CAN CAUSE SLOW DECOMPOSITION.

Hazardous Decomposition Products: SULFUR HEXAFLUORIDE IS ONLY STABLE AT ELEVATED TEMPERATURES (