

MG INDUSTRIES -- SULFUR HEXAFLUORIDE -- 6830-00-985-7283

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Product Identification
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Product ID:SULFUR HEXAFLUORIDE

MSDS Date:05/07/1990

FSC:6830

NIIN:00-985-7283

MSDS Number: BJNBS

=== Responsible Party ===

Company Name:MG INDUSTRIES

Address:2100 COMMERCE RD

City:RICHMOND

State:VA

ZIP:23234

Country:US

Emergency Phone Num:800-424-9300 CHEMTREC

CAGE:8D945

=== Contractor Identification ===

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Company Name:MG INDUSTRIES

Address:2100 COMMERCE RD

Box:City:RICHMOND

State:VA

ZIP:23234

Country:US

Phone:804-231-1191

CAGE:8D945

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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 SPECIFIED

OSHA PEL:1000 PPM

ACGIH TLV:1000 PPM; 9192

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Hazards Identification
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LD50 LC50 Mixture:LD50 (IV RABBIT) = 5790 MG/KG

Routes of Entry: Inha

lution:YES Skin:NO Ingestion:NO

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

Health Hazards Acute and Chronic:ACUTE: MATERIAL NORMALLY ACTS AS A SIMPLE ASPHYXIANT BY DISPLACEMENT OF OXYGEN AND MAY RESULT IN A PERIPHERAL TINGLING WITH SOME ALTERED HEARING SENSATION. FOR MASSIVE INHALATION OVERDOSES, UNCONSCIOUSNESS IS IMMEDIATE. EXPOSURE MAY ALSO CAUSE JUDGEMENT IMPAIRMENT, FATIGUE, NAUSEA. CHRONIC: NO KNOWN EFFECTS.

Explanation of Carcinogenicity:NONE OF THE COMPONENTS IN THIS PRODUCT IS

LISTED BY IARC, NTP, OR OSHA AS A CARCINOGEN.

Effects of Overexposure:PERIPHERAL TINGLING, ALTERED HEARING, INCREASED BREATHING WITH GASPING AND GULPING FOR AIR, ACCELERATED PULSE RATE, MUSCULAR INCOORDINATION, FAULTY JUDGEMENT, DISORIENTATION, NAUSEA AND VOMITING, FATIGUE, FAINTING. PROLONGED SKIN CONTACT MAY CAUSE FROSTBITE.

Medical Conditions Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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===== First Aid Measures =====
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First Aid:FROSTBITE/SKIN EXPOSURE SYMPTOMS: WARM AFFECTED SKIN IN WARM WATER (107F) OR GENTLY WRAP AFFECTED PARTS IN BLANKETS. ENCOURAGE VICTIM TO EXERCISE AFFECTED BODY PARTS. GET MEDICAL ATTENTION. FOR INHALATION: REMOVE TO FRESH AIR AND SEEK MEDICAL HELP IF BREATHING IS LABORED. ADMINISTER ARTIFICIAL RESPIRATION IF NECESSARY.

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===== Fire Fighting Measures =====
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Extinguishing Media:USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY

CHEMICAL AS APPROPRIATE FOR SURROUNDINGS.

Fire Fighting Procedures:FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE. USE WATER SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE.

Unusual Fire/Explosion Hazard:FIRE OR EXCESSIVE HEAT MAY CAUSE PRODUCTION OF HAZARDOUS DECOMPOSITION PRODUCTS. DECOMPOSITION MAY CAUSE COMPOUND DISPROPORTIONATION INTO TOXIC SULFUR FLUORIDES

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===== Accidental Release Measures =====
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Spill Release Procedures:EVACUATE ALL PERSONNEL FROM RELEASE AREA AND STOP LEAK IF POSSIBLE WITHOUT UNDO RISK.

Neutralizing Agent:NOT APPLICABLE.

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

Handling and Storage Precautions:PROTECT CYLINDERS FROM PHYSICAL DAMAGE. STORE AWAY FROM EXTREME HEAT. KEEP CYLINDER VALVES CLOSED WHEN NOT IN USE AND WHEN EMPTY.

Other Precautions:DO NOT DEFACE CYLINDERS OR LABELS. HANDLE CYLINDERS WITH PROPER CAUTION.

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

Respiratory Protection:IF NEEDED, USE FULL POSITIVE PRESSURE SCBA EQUIPMENT.

Ventilation:PROVIDE GENERAL "DILUTION" VENTILATION TO MEET PUBLISHED EXPOSURE LIMITS.

Protective Gloves:WORK GLOVES FOR HANDLING CYLINDERS.

Eye Protection:APPROVED SAFETY GLASSES OR FACE SHIELD.

Other Protective Equipment:SAFETY SHOES AND HEARING PROTECTION. AN EYE WASH MAY NEED TO BE PROVIDED.

Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND

RECOMMENDED PROCEDURES. USE PROPER CARE WHEN HANDLING AND STORING CYLINDERS.

Supplemental Safety and Health

IMPURE FORMS OF THIS GAS MAY CONTAIN TOXIC TRACE AMOUNTS OF OTHER SULFUR FLUORIDES WHICH ON CONTACT WITH WATER FORM HIGHLY TOXIC AND CORROSIVE HYDROGEN FLUORIDE.

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

HCC:G3

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

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

Vapor Pres:16.548

Vapor Density:5.1

Spec Gravity:1.6

8

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

Solubility in Water:NEGLIGIBLE

Appearance and Odor:COLORLESS, ODORLESS GAS

Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES

CONTACT WITH DISILANE WILL CAUSE A VIOLENT EXPLOSION.

Stability Condition to Avoid:HIGH TEMPERATURES, SPARKS AND OPEN FLAMES

Hazardous Decomposition Products:OTHER SULFUR FLUORIDES SUCH AS
SF2,S2F2,SF4,S2F10.

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

Waste Disposal Methods:MOVE LEAKY CYLINDER TO OUTDOORS OR VENTILATED HOOD. ALLOW GAS TO DISCHARGE AT MODERATE RATE. REMOVE ALL FLAMMABLE MATERIALS FROM VICINITY. DISPOSAL SHOULD BE MADE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS.

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