

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

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

Product ID:SULPHUR HEXAFLUORIDE

MSDS Date:06/01/2000

FSC:6830

NIIN:00-985-7283

Status Code:A

MSDS Number: CLCXL

=== Responsible Party ===

Company Name:MG INDUSTRIES

Address:3 GREAT VALLEY PKY

City:MALVERN

State:PA

ZIP:19355-1424

Country:US

Info Phone Num:610-695-7400 / 610-695-7449

Emergency Phone Num:(80

0)424-9300

Resp. Party Other MSDS Num.:MGI22300

Preparer's Name:NOT PROVIDED

Chemtrec Ind/Phone:(800)424-9300

CAGE:08772

=== Contractor Identification ===

Company Name:GASQUIP INC

Address:9399 HAMILTON DR

Box:City:MENTOR

State:OH

ZIP:44060

Country:US

Phone:440-357-6465

Contract Num:SP0450-01-M-ZB16-

CAGE:1SAT6

Company Name:MG INDUSTRIES

Address:3 GREAT VALLEY PKY

Box:City:MALVERN

State:PA

ZIP:19355-1424

Country:US

Phone:610-695-7400 / 610-695-7449

CAGE:08772

===== Composition/Informati

on on Ingredients =====

Ingred Name:SULFUR HEXAFLUORIDE  
CAS:2551-62-4  
RTECS #:WS4900000  
= Wt:100.  
Other REC Limits:NOT PROVIDED  
OSHA PEL:6000 MG/M3;1000 PPM  
ACGIH TLV:5970 MG/M3;1000 PPM

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

LD50 LC50 Mixture:NOT PROVIDED  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:INHALATION: SHORT TERM: SUFFOCATION.  
LONG TERM EXPOSURE: NO INFORMATION ON SIGNIFICANT ADVERSE EFFECTS.  
SKI  
N CONTACT: SHORT TERM EXPOSURE: FROSTBITE. LONG TERM EXPOSURE:  
NO INFORMATION IS AVAILABLE. EYE CONTACT: FROSTBITE. LONG TERM  
EXPOSURE: NO INFORMATION IS AVAILABLE. INGESTION: SHROT TERM  
EXPOSURE: FROSTBITE. LONG TERM EXPOSURE: NO INFORMATION IS  
AVAILABLE.  
Explanation of Carcinogenicity:NONE  
Effects of Overexposure:DIFFICULTY BREATHING. SKIN CONTACT: FROSTBITE.  
EYE CONTACT: FROSTBITE. INGESTION: FROSTBITE.  
Medical Cond Aggravated by Exposure:NOT PROVIDED

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

First Aid:INHALATION: REMOVE FROM EXPOSURE IMMEDIATELY. PERFORM  
ARTIFICIAL RESPIRATION IF NEEDED. GET MEDICAL ATTENTION. SKIN:  
WASH IF NEEDED. IF FROSTBITE, WARM AFFECTED AREA IN WARM WATER OR  
GENTLY WRAP AFFE CTED PARTS IN BLANKETS. ALLOW CIRCULATION TO  
RETURN NATURALLY. GET MEDICAL ATTENTION IMMEDIATELY. EYE: UNLIKELY  
THAT EMERGENCY TREATMENT WILL BE REQUIRED. FLUSH WITH LARGE AMOUNT  
OF WATER OR NORMAL SA LINE UNTIL  
NO EVIDENCE OF CHEMICAL REMAINS  
(AT LEAST 15-20 MINUTES). GET MEDICAL ATTENTION IMMEDIATELY.  
INGESTION: IT IS UNLIKELY THAT EMERGENCY TREATMENT WILL BE  
REQUIRED. GET MEDICAL ATTENTION, IF N EEEDED.

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

Flash Point:NONE  
Extinguishing Media:CARBON DIOXIDE, REGULAR DRY CHEMICAL. LARGE FIRES:  
USE REGULAR FOAM OR FLOOD WITH FINE WATER SPRAY.  
Fire Fighting Procedures:MOVE CONTAINER FROM FIRE AREA IF YOU CAN DO IT  
WIT

HOUT RISK. COOL CONTAINERS WITH WATER SPRAY UNTIL WELL AFTER THE FIRE IS OUT. STAY AWAY FROM THE ENDS OF TANKS. WITHDRAW IMMEDIATELY IN CASE OF RISING SOUND FROM VENTING SAFETY DEVICE OR ANY DISCOLORATION OF TANK DUE TO FIRE.

Unusual Fire/Explosion Hazard: NEGLIGIBLE FIRE HAZARD. FOR TANK, RAIL CAR OR TANK TRUCK, EVACUATION RADIUS: 800 METERS (1/2 MILE).

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

Spill Release Procedures: STOP LEAK IF POSSIBLE WITHOUT PERSONAL RISK.

KEEP UNNECESSARY PEOPLE AWAY. ISOLATE HAZARD AREA AND DENY ENTRY. STAY UPWIND AND KEEP OUT OF LOW AREAS.

Neutralizing Agent: NOT RELEVANT

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

Handling and Storage Precautions: STORE AND HANDLE IN ACCORDANCE WITH ALL CURRENT REGULATIONS AND STANDARDS. KEEP SEPARATED FROM INCOMPATIBLE SUBSTANCES.

Other Precautions: NOT PROVIDED

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

Respirator

Protection: UNDER CONDITIONS OF HEAVY EXPOSURE, RESPIRATORY PROTECTION MAY BE NEEDED. FOR UNKNOWN CONCENTRATIONS/ IMMEDIATELY DANGEROUS TO LIFE OR HEALTH ANY SUPPLIED-AIR RESPIRATOR WITH FULL FACEPIECE AND OPERATED IN A PRESSURE-DEMAND/ OTHER POSITIVE-PRESSURE MODE IN COMBINATION WITH A SEPARATE ESCAPE SUPPLY. ANY SELF-CONTAINED BREATHING APPARATUS WITH A FULL FACEPIECE

Ventilation: BASED ON AVAILABLE INFORMATION, ADDITIONAL VENTILATION IS NOT REQUIRED. ENSURE COMPLIANCE WITH APPLICABLE EXPOSURE LIMITS.

Protective Gloves: CHEMICAL RESISTANT.

Eye Protection: SPLASH RESISTANT SAFETY GOGGLES.

Other Protective Equipment: PROVIDE AN EMERGENCY EYE WASH FOUNTAIN AND QUICK DRENCH SHOWER IN THE IMMEDIATE WORK AREA. WEAR APPROPRIATE CHEMICAL RESISTANT CLOTHING.

Work Hygienic Practices: NOT PROVIDED

Supplemental Safety and Health

ABBREVIATION: N/A = NOT APPLICABLE. N/AV = NOT AVAILABLE. N/K = UNKNOWN. N/P = NOT PROVIDED. N/R = NOT RELEVANT. N/D = NOT DETER

MINED. N/E = NOT ESTABLISHED. CNS = CENTRAL NERVOUS SYSTEM.

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

HCC:G3  
NRC/State Lic Num:NOT RELEVANT  
Boiling Pt:B.P. Text:NOT AVAILABLE  
Melt/Freeze Pt:=-50.5C, -58.9F  
Decomp Temp:Decomp Text:NOT PROVIDED  
Vapor Pres:16548 MMHG @ 20C  
Vapor Density:5.1  
Spec Gravity:1.68  
Solubility in Water:SLIGHT  
Appearance and Odor:COLORLESS, ODORLESS GAS  
Corrosion Rate:NOT PROVIDED

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

===

Stability Indicator/Materials to Avoid:YES  
COMBUSTIBLE MATERIALS, METALS. SULFUR HEXAFLUORIDE: DISILANE: EXPLODES  
VIOLENTLY ON CONTACT. HYDROGEN: REACTS AT 400C. METALS (HOT+  
REACTIVE) INCOMPATIBLE. SODIUM: REACTS ABOVE -50.5C. SULFUR: REACTS  
WITH VAPOR AT 400C.  
Stability Condition to Avoid:STABLE UNDER NORMAL TEMPERATURES AND  
PRESSURE.  
Hazardous Decomposition Products:HALOGENS, OXIDES OF SULFUR

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

Toxicologi  
cal Information:5790 MG/KG INTRAVENOUS-RABBIT LD50. EXPOSURE  
TO 80% SULFUR HEXAFLUORIDE AND 20% OXYGEN FOR 3 MINUTES PRODUCES  
PERIPHERAL TINGLING AND MILD EXCITEMENT WITH SOME ALTERED HEARING.  
REPEATED OR PROLONGED EXPOSURE MAY CAUSE FLUOROSIS WITH WEIGHT  
LOSS, BRITTLE BONES, ANEMIA, WEAKNESS, GENERAL ILL HEALTH, STIFF  
JOINTS, AND DISCOLORATION OF TEETH WHEN EXPOSURE OCCURS DURING  
TOOTH FORMATION.

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

Eco

logical:NOT AVAILABLE.

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

Waste Disposal Methods:DISPOSE IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.

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

Transport Information:U.S. DOT 49 CFR 172.101 SHIPPING NAME-UN NUMBER: SULFUR HEXAFLUORIDE-UN1080. U.S. DOT 49 CFR 172.101 HAZARD CLASS OR DIVISIONS: 2.2. U.S. DOT 49 CFR 172.101 AND SUBPART E LABELING REQUIREMENTS: NONFLAMMABLE GAS.

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

SARA Title III Information:CERCLA SECTION 103 (40CFR302.4): N. SARA SECTION 302 (40 CFR 355.30): N. SARA SECTION 304 (40 CFR 355.40): N. SARA SECTION 313 (40 CFR 372.65): N. SARA HAZARD CATEGORIES, SARA SECTION 311/312 (40 CFR 370.21): ACUTE: Y. CHRONIC: N. FIRE: N. REACTIVE: N. SUDDEN RELEASE: Y.

Federal Regulatory Information:TSCA INVENTORY STATUS: Y. TSCA 12 (B) EXPORT NOTIFICATION: NOT LISTED. OSHA PROCESS SAFETY (29CFR1910.119): N.

State Regulatory Information:CALIFORNIA PROPOSITION 65: N.

===== Other Information =====

Disclaimer (provided with this information by the compiling agencies): This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.