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

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

Product ID:SULFUR HEXAFLUORIDE

MSDS Date:06/01/2000

FSC:6830

NIIN:00-985-7283

Status Code:A

MSDS Number: CLCSZ === 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:800-4

24-9300

Resp. Party Other MSDS Num.: MSDS # 22300. MG122300

Chemtrec Ind/Phone:(800)424-9300

CAGE:08772

=== Contractor Identification ===

Company Name: ADVANCED SPECIALTY GASES INC

Address: ONE POST STREET SUITE 2525

Box:City:SAN FRANCISCO

State:CA ZIP:94104 Country:US

Phone:415-398-7167

Contract Num:SP0450-99-M-JA62

CAGE:0YCT7

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 Contract Num:SP0450-01-M-ZB16 CAGE:08772 ======= Composition/Information on Ingredients ========= Ingred Name: SULPHUR HEXAFLUORIDE CAS:2551-62-4 RTECS #:WS4900000 = Wt:100.OSHA PEL:6000 MG/M3;1000 PPM ACGIH TLV:5970 MG/M3;1000 PPM ========== Hazards Identification =========================== LD50 LC50 Mixture:INTERVENOUS-RABBIT, LD50: 5790 MG/KG. ports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:ACUTE: INHALATION: SHORT TERM EXPOSURE: SUFFOCATION. LONG TERM EXPOSURE: NO INFORMATION ON SIGNIFICANT ADVERSE EFFECTS. SKIN CONTACT: SHORT TERM EXPOSURE: FROSTBITE. LONG TERM EXPOSURE: NO INFORMATION AVAILABLE. EYE CONTACT: SHORT TERM EXPOSURE: FROSTBITE, LONG TERM EXPOSURE: NO INFORMATION AVAILABLE. INGESTION: SHORT TERM EXPOSURE: FROSTBITE. LONG TERM EXPOSURE: NO INFORMATION AVAILABLE Explanation of Carcinogenicity:NONE. Effects of Overexposure: INHALATION: PERIPHERAL TINGLING, MILD EXCITEMENT, ALTERED HEARING, FLUOROSIS WITH WEIGHT LOSS, BRITTLE

Effects of Overexposure:INHALATION: PERIPHERAL TINGLING, MILD EXCITEMENT, ALTERED HEARING, FLUOROSIS WITH WEIGHT LOSS, BRITTLE BONES, ANEMIA, WEAKNESS, GENERAL ILL HEALTH, STIFF JIONTS, DISCOLORATION OF TEETH, BREATHING DIFF ICULTIES, HEADACHE, DIZZINESS, UNCONSCIOUSNESS, DEATH.INGESTION: FROSTBITE DAMAGE TO LIPS. MOUTH. AND MUCOUS MEMBRANES. EYE AND SKIN: FROSTBITE.

First Aid:INHALATIONL REMOVE FROM EXPOSURE. USE BAG VALVE MASK OR SIMILAR DEVICE TO PERFORM ARTIFICIAL RESPIRATION IF NEEDED. GET MEDICAL ATTENTION. SKIN CONTACT: IF FROSTBITE, FREEZING, OR CRYOGENIC BURNS OCCU R, WARM AREA IN WARM WATER. IF NOT AVAILABLE, GENTLY WRAP PARTS IN BLANKETS. ALLOW CIRCULATION TO RETURN NATURALLY. GET MEDICAL ATTENTION. EYE CONTACT: UNLIKELY TREATMENT REQUIRED. WASH WITH LARGE AM OUNTS OF WATER OR NORMAL SALINE. GET MEDICAL ATTENTION. ING

ESTION: UNLIKELY THAT TREATMENT REQUIRED. GET MEDICAL ATTENTION.

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

Flash Point:NONFLAMMABLE Lower Limits:NOT RELEVANT Upper Limits:NOT RELEVANT

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 WITHOUT RISK.

COOL CONTAINERS WITH WATER SPRAY UNTIL WELL AFTER FIRE IS OUT. STAY

AWAY FROM E

NDS OF TANKS. WITHDRAW IMMEDIATELY IN CASE OF RISING SOUND FROM VENTING SA FETY DEVICE OR DISCOLORATION OF TANKS. FOR TANK, RAIL CAR OR TANK TRUCK, EVACUATION RADIUS: 800 METERS (1/2 MILE).

Unusual Fire/Explosion Hazard: NEGLIGIBLE FIRE HAZARD.

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

Spill Release Procedures:STOP LEAK IF POSSIBLE WITHOUT PERSONAL RISK KEEP UNNECESSARY PEOPLE AWAY, ISOLATE HAZARD AREA. STAY UPWIND AND KEEP OUT OFLOW AREAS.

Neutral

izing Agent:NOT RELEVENT.

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

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

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

Respiratory Protection:FOR FREQUENT USE OR HEAVY EXPOSURE, RESPIRATORY PROTECTION MAY BE NEEDED. FOR UNKNOWN CONCENTRATIONS OR DANGEROUS TO LIFE OR HEALTH: USE ANY S

UPPLIED-AIR RESPIRATOR WITH FULL FACEPIECE AND OPERATED IN PRESSURE-DEMAND OR OTHER POSITIVE-PRESSURE MODE IN COMBINATION WITH A SEPARATE ESCAPE SUPPLY OR ANY SELF-CONTAINED BREATHING APPARATUS WITH A FULL FACEPIECE. Ventilation: BASED ON AVAILABLE INFORMATION, ADDITIONAL VENTILATION IS NOT REQUIRED. ENSURE COMPLIANCE WITH APPLICIABLE EXPOSURE LIMITS. Protective Gloves:WEAR APPROPRIATE CHEMICAL RESISTANT GLOVES. Eye Protection: WEAR SPLASH RESISTANT SAFETY GOGGLES. Other Protectiv e Equipment:WEAR APPROPRIATE CHEMICAL RESISTANT CLOTHING. PROVIDE AN EMERGENCY EYE WASH FOUNTAIN AND A QUICK DRENCH SHOWER IN THE IMMEDIATE WORK AREA. Supplemental Safety and Health ======== Physical/Chemical Properties ============ HCC:G3 NRC/State Lic Num: NOT RELEVENT Boiling Pt:B.P. Text:NOT AVAILABLE Melt/Freeze Pt:=-50.5C, -58.9F Vapor Pres:16498 MMHG@20C Vapor Density:5.1(AIR=1) Spec Gravity: 1.68 (WATER=1) Viscosity: NOT RELEVANT Evaporation Rate & Deference:

NOT APPLCIABLE Solubility in Water:SLIGHTLY

Appearance and Odor: COLORLESS, ODORLESS GAS.

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

Stability Indicator/Materials to Avoid:YES

DISILANE: EXPLODES ON CONTACT. H2: REACTS AT 400C. METALS (HOT + REACTIVE): INCOMPATIBLE. SODIUM: REACTS ABOVE 150.5C. SULFUR: REACTS WITH VAPOR AT 400C.

Stability Condition to Avoid: STABLE AT NORMAL TEMPERATURES AND PRESSURE.

Hazardous Decomposition Products: THERMAL DECOMPOSITION PROD UCTS:

HALOGENS, OXIDES OF SULFUR.

Conditions to Avoid Polymerization: WILL NOT POLYMERIZE.

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

Toxicological Information: TOXICITY DATA: 5790 MG/KG INTRAVENOUS-RABBIT LD50. ACUTE TOXICITY: INSUFFICIENT DATA. HEALTH EFFECTS: INHALATION: EXPOSURE TO 80% SULFUR HEXAFLUORIDE AND 20% OXYGEN FOR 3 MINUTES PRODUCES PERIPHERAL T INGLING, A MILD EXCITEMENT STAGE WITH SOME ALTERED HEARING IN MOST SUBJECTS. REPEATED OR PROLO

LIQUID MAY CAUSE FROSTBITE. INGESTION OF GAS IS UNLIKELY. IF LIQUID SWALLOWED, FROSTBITE TO LIPS, MOUTH, MUCOUS MEMBRANES MAY OCCUR.
========= Ecological Information ===========
Ecological:NOT AVAILABLE.
=========== Disposal Consideration s ====================================
Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH ALL APPLICIABLE LOCAL, STATE, AND FEDERAL REGULATIONS.
========= MSDS Transport Information ===========
Transport Information:U.S. DOT PROPER SHIPPING NAME: SULFUR HEXAFLUORIDE; UN 1080; CLASS 2.2; LABE REQUIRED: NONFLAMMABLE GAS.,
============= Regulatory Information ===============
SARA Title III Information:SECTION 302 (40 CFR355.30): NO. SECTION 304 (40 CFR 355.40
): NO. SECTION 313 (40 CFR 372.65): NO. SARA HAZARD
CATEGORIES, SARA SECTIONS 311/312 (40 CFR 370.21): ACUTE: YES; CHRONIC: NO; FIRE: NO; REAC TIVE: NO; SUDDEN RELEASE: YES.
Federal Regulatory Information:TSCA INVENTORY STATUS: YES. TSCA 12(B)
EXPORT NOTIFICATION: NOT LISTED. CERCLA SECTION 103 (40 CFR 302.4):
NO. OSHA PROCESS SAFETY (29 CFR 1910.119): NO. State Regulatory Information:CALIFORNIA PROPOSITION 65: NO.
=========== Other Information ===========

EXPOSURE TO FLUORIDES MAY CAUSE FLUOROSIS WITH WEIGHT LOSS, BRITTLE

DISCOLORATION OF TEETH DURING TOOTH FORMATION. SKIN, EYE CONTACT:

BONES, ANEMIA, WEAKNESS, GENERAL ILL HEALTH, STIFF JOINTS, AND

NGED

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