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GREAT LAKES CHEMICAL CORP -- 045, HALON 1301 -- 6830-01-284-5852

Product ID:045, HALON 1301 MSDS Date:09/01/1990 FSC:6830 NIIN:01-284-5852 Status Code:A MSDS Number: CLJXL === Responsible Party === Company Name: GREAT LAKES CHEMICAL CORP Address:1801 HWY 52 NW Box:2200 City:WEST LAFAYETTE State:IN ZIP:47996-2200 Country:US Info Phone Num:765-497-6100/800-949-5167 Emergency Phone Num: (501) 862-5141 Preparer's Name: RESEARCH SERVICES DEPT CAGE:2E394 === Contractor Identification === Company Name: GREAT LAKES CHEMICAL CORP Address:1801 HWY 52 NW Box:2200 City:WEST LAFAYETTE State:IN ZIP:47996-2200 Country:US Phone:765-497-6100/800-949-5167 CAGE:2E394 Company Name: KEYSTONE FIRE PROTECTION CO. Address:108 PARK DRIVE, SUITE 3 Box:City:MONTGOMERYVILLE State:PA ZIP:18936 Country:US Phone:215-641-0100/ FAX 215-641-9638 Contract Num:SP0450-00-D-0521 CAGE:1U693

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Ingred Name:BROMOTRIFLUOROMETHANE CAS:75-63-8 RTECS #:PA5425000 OSHA PEL:6100 MG/M3;1000 PPM ACGIH TLV:6090 MG/M3;1000 PPM Ozone Depleting Chemical:1

LD50 LC50 Mixture:LC50 RAT >800,000 PPM FOR 4 HRS. Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:HALON 1301 HAS ANESTH ETIC AND CARDIAC

EFFECTS IN HUMANS AT CONCENTRATIONS ABOVE 10% BY VOLUME, CONCENTRATIONS BELOW 10% ARE CONSIDERED SAFE FOR 0-5 MINUTE EXPOSURES. HALON 1301 IS CLASSIFIED AS GROUP 6 (LEAST TOXIC) IN THE UNDERWRITERS LABORATORIES CLASSIFICATION OF COMPARATIVE LIFE HAZARDS OF FIRE EXTINGUISHING AGENTS. SMOKING IN AREAS WHERE THIS CHEMICAL IS RELEASED CAN CAUSE FORMATION OF TOXIC & IRRITATING HALOGENS AND HLOGEN ACIDS WHICH COULD BE INHALED WITH THE SMOKE. Explanation o

f Carcinogenicity:PRODUCT IS NON-MUTAGENIC IN THE AMES TEST.

Effects of Overexposure: THE ANESTHETIC EFFECT OF HALON 1301 AT LEVELS BELOW 10% IS SIMILAR TO A FEELING OF MILD INTOXICATION. ANESTHETIC EFFECTS END RAPIDLY AFTER EXPOSURE IS TERMINATED. PROLONGED EXPOSURE TO CONCENTRATIONS ABOVE 10% (15-20%) MAY LEAD TO UNCONSCIOUSNESS AND POSSIBLY DEATH. INHALATION OF PRODUCT & ITS DECOMPOSITION PRODUCTS CAN CAUSE CLOUDING OF CONTACT LENSES. Medical Cond Aggravated by Exposure

CARDIAC CONDITIONS MAY BE

AGGRAVATED BY OVEREXPOSURE.

First Aid:INHALATION: REMOVE PERSON TO FRESH AIR; IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. GET MEDICAL ATTENTION. SKIN: FLUSH WITH WATER. GET MEDICAL ATTENTION IF F ROSTBITE OCCURS. EYES: FLUSH WITH WATER. GET MEDICAL ATTENTION. NOTE: EPINEPHRINE IS CONTRAINDICATED IN THE TREATMENT OF OVER-EXPOSURE TO T Flash Point:NON-FLAMMABLE

Extinguishing Media:HALON 1301 IS A FIRE EXTINGUISHING AGENT. USE WATER SPRAY TO COOL CYLINDERS INVOLVED IN FIRES. USE MEDIA SUITABLE FOR FLAMMABLE MATERIAL IN THE AREA.

Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS. Unusual Fire/Explosion Hazard:PREDOMINANT DECOMPOSITION PRODUCTS ARE HYDROGEN FLUORIDE AND HYDROGEN BROMIDE IN FIRE SITUATIONS. THE PRODUC

TS ARE IRRITATING AND POTENTIALLY TOXIC IF FIRE EXTINGUISHMENT IS DELAYED. ABOVE 1000F, HALO N 1301 MAY RELEASE HYDROGEN FLUORIDE, HYDROGEN BROMIDE, CARBONYL FLUORIDE AND CARBONYL BROMIDE.

Spill Release Procedures: EVACUATE AREA. WEAR SELF-CONTAINED BREATHING APPARATUS, VENTILATE ENCLOSED AREAS IN CASE OF DISCHARGE.

Handling and Storage Precau

tions: PROTECT CYLINDERS FROM PHYSICAL

DAMAGE. STORAGE TEMPERATURE SHOULD NOT EXCEED 125F. CYLINDERS SHOULD BE SECURED FOR STORAGE WITH VALVE PROTECTION CAP IN PLACE. Other Precautions:DO NOT SMOKE OR WEAR CONTACT LENSES WHERE THIS PRODUCT IS BEING USED.

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

- Respiratory Protection:WEAR NIOSH APPROVED, SELF-CONTAINED BREATHING APPARATUS AT CONCENTRATIONS GREATER THAN 10,000 PPM AS RECOMMENDED BY NIOSH. CONSULT AN
- SI STANDARD AND OSHA REGULATIONS CONCERNING THE USE OF RESPIRATORY EQUIPMENT. AVOID PROLONGED EXPOSURE TO EXCESSIVE CONCENTRATIONS.
- Ventilation:LOCAL EXHAUST-MAERIAL TRANSFER AND HANDLING SHOULD BE CONDUCTED WITH AN EXHAUST SYSTEM. MECHANICAL-ALL INDOOR AREAS SHOULD BE WELL VENTILATED. SPECIAL-NONE
- Protective Gloves:LINED NEOPRENE OR LEATHER IF FROSTBITE IS A POSSIBILITY
- Eye Protection: CHEMICAL SAFETY GOGGLES IF FROSTBITE IS A POSSIBILITY. DO NOT WEAR CONTACT LENS
- Other P

rotective Equipment:NONE Work Hygienic Practices:DETERMINE THAT PIPING IS EMPTY BEFORE DOING MAINTENANCE WORK. PERIODICALLY CHECK CYLINDER TO ENSURE VALVES ARE NOT LEAKING. Supplemental Safety and Health

HCC:G3 Boiling Pt:=-57.6C, -72.F Melt/Freeze Pt:=-167.6C, -270.F Vapor Pres:6200 AT 0C Vapor Density:5.1 Spec Gravity:1.57 AT 20C Evaporation Rate & amp; Reference: NOT AVAILABLE Solubility in Water: 0.03% BY WEIGHT Appe arance and Odor: ODORLESS, COLORLESS GAS Stability Indicator/Materials to Avoid:YES ACTIVE METALS, FIRES OF METAL HYDRIDES, AND MATERIAL CONTAINING OWN OXYGEN. PRODUCT WILL NOT EXTINGUISH FIRES OF THESE MATERIALS. PRODUCT MAY DEGRADE CERTAIN POLYMERIC MATERIALS. Stability Condition to Avoid:NONE Hazardous Decomposition Products: IN THE PRESENCE OF FLAMES OR HOT SURFACES: HYDROGEN FLUORIDE, HYDROGEN BROMIDE, BROMINE, CARBONYL FLUORIDE, AND CARBONYL BROMIDE. SMOKING CAN CAUSE FORMATION OF THESE CHEMCIALS AND MUST BE AVOIDED IN Conditions to Avoid Polymerization: WILL NOT OCCUR. Toxicological Information: APPROXIMATE LETHAL CONCENTRATION OF HALON 1301 TO THE RAT IS GREATER THAN 800,000 PPM FOR 15 MINUTES. THE ACUTE INHALATION LC50 WITH RATS IS GREATER THAN 800,000 PPM FOR 4

HOURS. THE COMPOUND IS REPOR TED TO BE NON-MUTAGENI C IN THE AMES

TEST. HALON 1301 HAS ANESTHETIC AND CARDIAC EFFECTS IN HUMANS AT CONCENTRATIONS ABOVE 10% BY VOLUME, CONCENTRATIONS BELOW 10% ARE CONSIDERED SAFE FOR 0-5 MINUTE EXP OSURES.

Waste Disposal Methods:RETURN CYLINDERS TO GREAT LAKES CHEMICAL CORPORATION, EL DORADO, ARKANSAS.

Transport Information:DOT: COMPRESSED GAS, N.O.S. (B

ROMOTRIFLUOROMETHANE) NON-FLAMMABLE GAS, UN 1956. EXPORT: BROMOTRIFLUOROMETHANE, NON-FLAMMABLE GAS, UN 1009, IMO CLASS 2.2.

SARA Title III Information: THIS CHEMICAL IS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF SUPERFUND AND 40 CFR 372.

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