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## GREAT LAKES CHEMICAL CORPORATION -- HALON 1301 -- 6830-01-073-6543

Product ID:HALON 1301 MSDS Date:09/01/1990 FSC:6830 NIIN:01-073-6543 Status Code:A MSDS Number: CKCTT === Responsible Party === Company Name: GREAT LAKES CHEMICAL CORPORATION Address: HWY 52 NW Box:2200 City:WEST LAFAYETTE State:IN ZIP:47906 Country:US Info Phone Num:501-862-5141 **Emergency Phone Num** :501-862-5141 Preparer's Name: RESEARCH SERVICES DEPT CAGE:06284 === Contractor Identification === **Company Name: GREAT LAKES CHEMICAL CORPORATION** Address: HWY 52 NW Box:2200 City:WEST LAFAYETTE State:IN ZIP:47906 Country:US Phone:501-862-5141 CAGE:06284 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-M-D564 CAGE:1U693

======= Composition/Information on

Ingredients ========

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:RAT LETHAL CONC >800,000PPM FOR 15MINS. 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 ANESTHETIC & CARDIAC

EFFECTS IN HUMANS AT CONCEN >10% BY VOL, CONC BELOW 10% ARE CONSIDERED SAFE FOR 0-5MIN EXPOSURE.HALON 1301 IS CLASSIFIED AS GROUP 6(LEAST TOXIC) IN THE UNDERWRITERS LAB CLASSIFICATION OF COMPARATIVE LIFE HAZ OF FIRE EXTINGUISHING AGENTS.SMOKING IN AREAS WHERE THIS CHEM IS RELEASED CAN CAUSE FORMATION OF TOXIC & IRRIT HALOGENS & HALOGEN ACIDS WHICH COULD BE INHAL W/THE SMOKE.

Explanation of Carcinogenicity:CARCINOGENICITY:NTP/IARC/OSHA:NO.

Effects of Overexposure: THE ANESTHETIC EFFECT

OF HALON 1301 AT LEVELS

BELOW 10% IS SIMILAR TO A FEELING OF MILD INTOXICATION. AMESTHETIC EFFECTS END RAPIDLY AFTER EXPOSURE IS TERMINATED.PROLONGED EXPOSURE TO CONCENTRATIONS A BOVE 10%(15-20%) MAY LEAD TO UNCONSCIOUSNESS AND POSSIBLY DEATH.

Medical Cond Aggravated by Exposure:CARDIAC CONDITIONS MAY BE AGGRAVATED BY OVEREXPOSURE.

First Aid:INHALTION:REMOVE PERSON TO FRESH AIR;IF NOT BREATHING, GIVE A

RTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. GET MEDICAL ATTENTION. SKIN:FLUSH WITH WATER. GET MEDICAL ATTENTION IF FROST BITE OCCURS. EYES: FLUSH WITH WATER, GET MEDICAL ATTENTION. NOTE:EPINEPHRINE IS CONTRAINDICATED IN THE TREATMENT OF OVER-EXPOSURE TO THIS PRODUCT.

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 MATERIALS 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 PRODUCTS 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 Precautions: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:AVOID EXPOSURE TO
THE PRODUCT AND DECOMPOSITION
PRODUCTS WHEN WEARING CONTACT LENSES; CLOUDING OF LENSES MAY OCCUR.

Respiratory Protection:WEAR NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS AT CONCENTRATIONS GREATER THAN 10,000PPM AS RECOMMENDED BY NIOSH. CONSULT ANSI STANDARD AND OSHA REGULATIONS CONCERNING THE USE OF RESPIRATORY EQ UIPMENT. AVOID PROLONGED EXPOSURE TO EXCESSIVE CONCENTRATIONS.

Ventilation:LOC EXHAUST-

MATERIAL TRANSFER & HANDLING SHOULD BE

CONDUCTED W/AN EXHAUST SYSTEM. MECHANICAL-ALL INDOOR AREAS SHOULD BE WELL VENTILATED.OTHER & SPECIAL:NONE.

Protective Gloves:LINED NEOPRENE OR LEATHER IF FROSTBITE IS A POSSIBILITY

Eye Protection: CHEMICAL SAFETY GOGGLES IF FROSTBITE IS POSSIBILITY. DON'T WEAR CONTACT LENSES.

Other Protective Equipment:NONE

Work Hygienic Practices: DETERMINE THAT PIPING IS EMPTEY BEFORE DOING MAINTENANCE WORK. PERIODICALLY CHECK CYLINDERS TO ENSURE VALVES ARE NOT LEAKING. Supplemental Safety and Health KEYSTONE P/N: 486365

HCC:G3 Boiling Pt:=-57.6C, -72.F Melt/Freeze Pt:=-167.6C, -270.F Vapor Pres:6200 Vapor Density:5.1 Spec Gravity:1.57 Evaporation Rate & amp; Reference:N/A(BUAC=1) Solubility in Water:0.03% BY WEIGHT Appearance and Odor:ODORLESS, COLORLESS GAS

Stability Indicator/Materials to Avoid:YES

A

CTIVE 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 PRESENCE OF FLAMES OR HOT SURFACES:HYDROGEN FLUORIDE,HYDROGEN BROMIDE,BROMINE, CARBONYL

FLUORIDE, & CARBONYL BROMIDE.SMOKING CAN CAUSE FORMATION OF THESE CHEMS & MUST BE AVOIDED IN THE AREA OF RELEAS

====== Toxicologi

Toxicological Information: APPROXIMATE LETHAL CONCENTRATIN OF HALON 1301 TO THE RAT IS GREATER THAN 800,000 PPM FOR 15MINS. THE ACUTE INHAL LC50 W/RATS IS GREATER THAN 800,000PPM FOR 4 HOURS. THE COMPOUND IS REPORTED TO BE NON-MU TAGENIC IN THE AMES TEST.

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

====== MSDS

Transport Information:DOT:COMPRESSED GAS, N.O.S.(BROMOTRIFLUOROMETHANE) 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 REQMTS OF SEC 313 OF TITLE III OF THE SUPERFUND AMENDMENTS & REAUTHORIZATION ACT OF 1986, AND 40CFR 372. (THE FIRST REPORT IS D UE

JULY 1, 1992 TO COVER THE 199 1 REPORTING YEAR.)

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