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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:765-497-6100/800-949-51

67

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

====== 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 ============== Hazards Identification ======================= 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 ANE STHETIC 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. Explanatio n of 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 Expos

ure: 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 T** 

O THIS PRODUCT.
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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 PRO
DUCTS ARE IRRITATING AND POTENTIALLY TOXIC IF FIRE EXTINGUISHMENT IS DELAYED. ABOVE 1000F, HALO N 1301 MAY RELEASE HYDROGEN FLUORIDE, HYDROGEN BROMIDE, CARBONYL FLUORIDE AND CARBONY BROMIDE.
========= Accidental Release Measures ==========
Spill Release Procedures:EVACUATE AREA. WEAR SELF-CONTAINED BREATHING APPARATUS, VENTILATE ENCLOSED AREAS IN CASE OF DISCHARGE.
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Handling and Storage Pre cautions: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 ANSI 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

Eye Protection: CHEMICAL SAFETY GOGGLES IF FROSTBITE IS A POSSIBILITY.

DO NOT WEAR CONTACT LENS

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r Protective 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
========= Physical/Chemical Properties ==========
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 & Description Rate
======== Stability and Reactivity Data =========
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, BROMIN E, 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 ==========
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-MUTAG ENIC 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.
======= Disposal Considerations ==========
Waste Disposal Methods:RETURN CYLINDERS TO GREAT LAKES CHEMICAL CORPORATION, EL DORADO, ARKANSAS.
======== MSDS Transport Information ==========
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

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

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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