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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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====== 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 ANEST HETIC 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 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 Exposur
e: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

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 PRODU CTS 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 Preca utions: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 A
NSI 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

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 & Evaporation R Solubility in Water: 0.03% BY WEIGHT App earance and Odor:ODORLESS, COLORLESS GAS ======== 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, 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 =========== 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-MUTAGEN IC 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.

Protective Equipment:NONE

BROMOTRIFLUOROMETHANE) NON-FLAMMABLE GAS, UN 1956. EXPORT:	
BROMOTRIFLUOROMETHANE, NON-FLAMMABLE GAS, UN 1009, IMO CLAS	SS 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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