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## GREAT LAKES CHEMICAL CORPORATION -- HALON 1301 AND GLC-13B1 -- 6830-00-543-6623

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

Product ID:HALON 1301 AND GLC-13B1

MSDS Date:06/01/1993

FSC:6830

NIIN:00-543-6623

Status Code:A

MSDS Number: CLCJL === 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:501-8

62-5141

Emergency Phone Num:800-949-5167

Resp. Party Other MSDS Num.:GLCC PRODUCT CODE: 045, 038

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

======= Composition/Information on Ingredients ========

Ingred Name:BROMOTRIFLUOROMETHANE

CAS:75-63-8

RTECS #:PA5425000

Other REC Limits:50000 PPM(NIOSH-LDH)

OSHA PEL:1000 PPM

ACGIH TLV:1000

PPM Ozone Depleting Chemical:1

========= Hazards Identification ============================

LD50 LC50 Mixture:RAT LC50/4H > 800,000 PPM

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 AND GLC-13B1 HAS ANESTHETIC AND CARDIAC EFFECTS IN HUMANS AT CONCENTRATIONS ABOVE 10% BY VOLUME, CONCENTRATIONS BELOW 10% ARE CONSIDERED SAFE FOR 0-5 MINUTE EXPOSURES.

**Explanation of Carcin** 

ogenicity:NOT PROVIDED BY MANUFACTURER.

Effects of Overexposure:THE ANESTHETIC EFFECT OF HALON 1301 AND GLC-13B1 AT LEVELS BELOW 10% IS SIMILAR TO A FEELING OF MILD INTOXICATION. ANESTHETIC EFFECTS END RAPIDLY AFTER EXPOSURE IS TERMINATED. PROLONGED EXPOSURE TO CO NCENTRATIONS ABOVE 10%, (15-20%) MAY LEAD TO UNCONSCIOUSNESS AND POSSIBLY DEATH.

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

	First Aid Measure
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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 FROSTBITE OCCURS. EYES: FLUSH WITH WATER, GET MEDICAL ATTENTION.

Flash Point: NON-FLAMMABLE

Extinguishing Media:HALON 1301 IS A FIRE EXTINGUISHING AGENT. USE WATER SPRA

Y 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 & HYDROGEN BROMIDE IN FIRE SITUATIONS. THE
PRODUCTS ARE IRRITATING & POTENTIALLY TOXIC IF FIRE EXTINGUISHMENT
IS DELAYED. ABOVE 1000F, HALON 13 01 & GLC-13B1 MAY RELEASE
HYDROGEN FLUORIDE, HYDROGEN FLUORIDE, HYDROGEN BROMIDE, CARBO

NYL FLUORIDE & CARBONYL BROMIDE ======== Accidental Release Measures ============ Spill Release Procedures: EVACUATE ARES. WEAR SELF-CONTAINED BREATHING APPARATUS, VENTILATE ENCLOSED AREAS IN CASE OF DISCHARGE. Neutralizing Agent:NO DATA PROVIDED BY MANUFACTURER. ============= Handling and Storage ========================== Handling and Storage Precautions: PROTECT CYLINDERS FROM PHYSICAL DAMAGE. STORAGE TEMPERATURE SHOULD NOT EXCEED 125F. CYLINDERS ULD BE SECURED FOR STORAGE WITH VALVE PROTECTION CAP IN PLACE. Other Precautions: NO DATA PROVIDED BY MANUFACTURER. ====== 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: MATERIAL TRANSFER AND HANDLING SHOULD BE CONDUCTED WITH AN EXHAUST SYSTEM. MECHANICAL: ALL INDOOR AREAS SHOULD BE WELL VENTILATED. Protective Gloves:LINED NEOPRENE OR LEATHER Eye Protection: CHEMICAL SAFETY GOGGLES. DO NOT WEAR CONTACT LENSES. Other Protective Equipment: NONE Work Hygienic Practices: DETERMINE THAT PIPING IS EMPTY BEFORE DOING MAINTENANCE WORK. PERIODICALLY CHECK CYLINDERS TO ENSURE VALVES ARE NOT LEAKING. Supplemental Safety and Health **AVOID EXPOSUR** E TO THE PRODUCT & DECOMPOSITION PRODUCTS WHEN WEARING CONTACT LENSES; CLOUDING OF LENSES MAY OCCUR.

======== Physical/Chemical Properties ==========

HCC:G3

Boiling Pt:=-57.6C, -72.F

Melt/Freeze Pt:=-167.6C, -270.F

Decomp Temp:Decomp Text:NOT PROVIDED

Vapor Pres:6200 (MMHG) AT 0 DEG C

Vapor Density:5.1 AIR=1

Spec Gravity:1.57 @ 20 DEG C (WATER=1)

pH:NOT PROVIDED

Viscosity:NOT PROVIDED

Evaporation Rate & Evaporation R

Solubility in Water: 0.03% BY WEIGHT

App



Transport Information:DOT: BROMOTRIFLUOROMETHANE, NONFLAMMABLE GAS, UN1009. IMDG: BROMOTRIFLUOROMETHANE, NONFLAMMABLE COMPRESSED GAS, 2-GASES, UN1009. IATA: BROMOTRIFLUOROMETHANE, 2, UN1009,

==	Regulatory Information
	UINSTRUCTION 200, MAXIM UM NET QUANTITY FOR PASSENGER AIRCRAFT 75 KG; MAXIMUM NET QUANTITY FOR CARGO AIRCRAFT 150 KG. EXPORT: BROMOTRIFLUOROMETHANE, NONFLAMMABLE GAS, UN1009, IMO CLASS 2.2.
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SARA Title III Information:BROMOTRIFLUOROMETHANE: THIS CHEMICAL IS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PAR

T 372.

DACKING

Federal Regulatory Information: NO DATA PROVIDED BY MANUFACTURER. State Regulatory Information: NO DATA PROVIDED BY MANUFACTURER.

=========== Other Information ===============================

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