

GREAT LAKES CHEMICAL CORPORATION -- P/N 34000004-2 HALON 1301 -- 4210-01-281-2773

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

Product ID:P/N 34000004-2 HALON 1301

MSDS Date:11/01/1995

FSC:4210

NIIN:01-281-2773

MSDS Number: CDGQC

=== Responsible Party ===

Company Name:GREAT LAKES CHEMICAL CORPORATION

Address:HIGHWAY 52 NW

Box:2200

City:WEST LAFAYETTE

State:IN

ZIP:47906

Country:US

Info Phone Num:317-497-610

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Emergency Phone Num:317-463-2511 OR 501-862-5141

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:PACIFIC SCIENTIFIC CO HTL/KIN-TECH DIVISION

Address:1800 HIGHLAND AVE

Box:City:DUARTE

State:CA

ZIP:91010

Country:US

Phone:818-359-9317/602-796-1100

CAGE:05167

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

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Ingred Name:TRIFLUOROBROMOMETHANE (HALON 1301) (SARA 313) (CERCLA)  
CAS:75-63-8  
RTECS #:PA5425000  
Fraction by Wt: 100%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:1000 PPM  
ACGIH TLV:1000 PPM; 9596  
Ozone Depleting Chemical:1

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

LD50 LC50 Mixture:LC50 (RATS) > 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:HAL  
ON 1301 HAS ANESTHETIC AND CARDIAC  
EFFECTS IN HUMANS AND CONCENTRATIONS ABOVE 10% BY VOLUME. SMOKING  
IN AREAS WHERE THIS CHEMICAL IS RELEASED MAY LEAD TO FORMING OF  
TOXIC & IRRITATING HALOGENS & HALOGEN ACIDS.  
Explanation of Carcinogenicity:NO INGREDIENT OF A CONCENTRATION OF 0.1%  
OR GREATER IS LISTED AS A CARCINOGEN OR SUSPECTED CARCINOGEN.  
Effects of Overexposure:ANESTHETIC EFFECTS, CARDIAC EFFECTS,  
UNCONSCIOUSNESS, POSSIBLE DEATH.  
Medical Cond Aggravated by Exposure:CARDIA  
C CONDITIONS ARE GENERALLY  
AGGRAVATED BY OVEREXPOSURE.

===== First Aid Measures =====

First Aid:SKIN-FLUSH WITH WATER. GET MEDICAL ATTENTION IF FROSTBITE  
OCCURS. EYES-FLUSH WITH WATER. GET MEDICAL ATTENTION.  
INHALED-REMOVE TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION IF  
BREATHING STOPPED. GIVE OXYGEN IF BREATHING DIFFICULT. NOTE:  
EPINEPHRINE IS CONTRAINDICATED IN THE TREATMENT OF OVER-EXPOSURE TO  
THIS PRODUCT.

===== Fire Fighting Measures =====

Flash Point:NON-FLAMMABLE  
Extinguishing Media:HALON 1301 IS A FIRE EXTINGUISHING AGENT.USE WATER  
TO COOL CYLINDERS INVOLVED.USE MEDIA APPROPRIATE FOR SURROUNDING  
FIRE  
Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS.  
Unusual Fire/Explosion Hazard:PREDOMINANT DECOMPOSITION PRODUCTS ARE  
HYDROGEN FLUORIDE AND HYDROGEN BROMIDE IN FIRE SITUATIONS. THESE  
PRODUCTS ARE IRRITATING AND POTENTIALLY TOXIC.

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Accidental Release Measures =====

Spill Release Procedures:EVACUATE AREA. WEAR SELF-CONTAINED BREATHING APPARATUS. VENTILATE ENCLOSED AREAS IN CASE OF DISCHARGE.  
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

===== Handling and Storage =====

Handling and Storage Precautions:PROTECT CYLINDERS FROM PHYSICAL DAMAGE. STORAGE TEMPERATURE SHOULD NOT EXCEED 125F. CYLINDERS SHOULD BE SECURED FOR STORAGE W/VALVE PROTECTION CAP ON.

Other Precautions:

DETERMINE THAT PIPING IS EMPTY BEFORE DOING MAINTENANCE WORK. PERIODICALLY CHECK CYLINDERS TO ENSURE VALVES ARE NOT LEAKING.

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

Respiratory Protection:IF ENGINEERING CONTROLS FAIL OR NON-ROUTINE USE OR AN EMERGENCY OCCURS; WEAR AN MSHA/NIOSH APPROVED AIR-SUPPLIED RESPIRATOR OR SCBA, AS REQUIRED. USE IAW 29 CFR 1910.134.

Ventilation:USE ADEQUATE MECHANICAL VENTILATION OR LOCAL EXHAUST TO MAINTAIN EXP

OSURE BELOW TLV(S).

Protective Gloves:LINED NEOPRENE OR LEATHER.

Eye Protection:CHEMICAL SAFETY GLASSES. NO CONTACT LENS

Other Protective Equipment:NONE.

Work Hygienic Practices:USE GOOD PERSONAL HYGIENE. DO NOT WEAR CONTACT LENSES WHEN WORKING WITH CHEMICALS.

Supplemental Safety and Health

END ITEM DESCRIPTION-FIRE SUPPRESSION SYSTEM, KC-135 AIRCRAFT.

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

HCC:G3

Boiling Pt:B.P. Text:-72F,-58C

Melt/Freeze Pt:M.P/F.P Text:-270F  
, -168C

Vapor Pres:6200

Vapor Density:5.1

Spec Gravity:1.57

Evaporation Rate & Reference:NOT AVAILABLE

Solubility in Water:NEGLIGIBLE

Appearance and Odor:COLORLESS, ODORLESS GAS.

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

ACTIVE METALS,FIRES OF METAL HYDRIDES,MATERIAL CONTAINING OWN OXYGEN.PRODUCT WILL NOT EXTINGUISH FIRES OF THESE PRODUCTS

Stability Condition to Avoid:NONE.

Hazardous Decomposition Products:HYDROGEN FLU

ORIDE, HYDROGEN BROMIDE,  
CARBONYL FLUORIDE, CARBONYL BROMIDE.  
Conditions to Avoid Polymerization:WILL NOT OCCUR.

===== Disposal Considerations =====

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

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