

FRC INTL INC -- HALON 1301 -- 6830-01-392-4999

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Product Identification  
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Product ID:HALON 1301  
MSDS Date:02/14/1996  
FSC:6830  
NIIN:01-392-4999  
MSDS Number: BYFNT  
=== Responsible Party ===  
Company Name:FRC INTL INC  
Address:6150 MERGER DR  
City:HOLLAND  
State:OH  
ZIP:43528  
Country:US  
Info Phone Num:419-867-8990  
Emergency Phone Num:419-867-8990  
Preparer's Name:FRC INTERNATIONAL  
CAGE:0ETK4  
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Contractor Identification ===  
Company Name:FRC INTL INC  
Address:6150 MERGER DR  
Box:City:HOLLAND  
State:OH  
ZIP:43528  
Country:US  
Phone:419-867-8990  
CAGE:0ETK4

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Composition/Information on Ingredients  
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Ingred Name:BROMOTRIFLUOROMETHANE  
CAS:75-63-8  
Fraction by Wt: 100%  
Other REC Limits:NONE RECOMMENDED  
Ozone Depleting Chemical:1

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Hazards Identification  
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LD50 LC50 Mixture:TLV: 1000 PPM  
Routes of Entry: Inhalation:YES Skin:NO I

ngestion:NO

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:HALON 1301 HAS ANESTHETIC & CARDIAC EFFECTS IN HUMANS AT CONCENTRATIONS BELOW 10% ARE CONSIDERED SAFE FOR 0-5 MINUTES EXPOSURES. HALON 1301 IS CLASSIFIED AS GROUP 6 (LEAST TOXIC) IN THE UNDERWRITERS LABORATORIES CLASSIFICATION OF COMPARATIVE LIFE HAZARDS OF FIRE EXTINGUISHING AGENTS.

Explanation of Carcinogenicity:NOT A LISTED CARCINOGEN.

Effects of Overexposure:THE ANESTHETIC EFFECTS OF HALON 1301 AT LEVELS

BELOW 10% IS SIMILAR TO A FEELING OF MILD INTOXICATION. ANESTHETIC EFFECTS TO CONCENTRATIONS ABOVE 10% (15-20), MAY LEAD TO UNCONSCIOUSNESS AND POSSIBLY DEATH.

Medical Cond Aggravated by Exposure:INDIVIDUALS WITH PREEXISTING DISEASE OF THE CENTRAL NERVOUS OR CARDIOVASCULAR SYSTEM MAY HAVE INCREASED SUSCEPTIBILITY TO THE TOXICITY OF EXCESSIVE EXPOSURE.

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

First Aid:INHALE-REMOVE VICTIM TO FRESH AIR. GIVE SYMPTOMATIC AND SUPPORTIVE CARE. GET MEDICAL ATTENTION. NOTE: ADRENALINE IS CONTRAINDICATED IN THE TREATMENT OF OVEREXPOSURE TO HALON 1301. SKIN-FLUSH SKIN WITH PLENTY OF WATER FOR 15 MIN. EYE-IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MIN. NOTES TO PHYSICIAN: CATECHOLAMINE DRUGS, SUCH AS SPINEPHRICE, SHOULD BE USED WITH CAUTION.

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

Flash Point:NONE

Extinguishing

Media:HALON 1301 IS A FIRE EXTINGUISHING AGENT.

Fire Fighting Procedures:USE WATER SPRAY OR FOG TO COOL CONTAINERS. SELF-CONTAINED BREATHING APPARATUS IS REQUIRED IF CYLINDERS RUPTURE OR RELEASE UNDER FIRE CONDITIONS.

Unusual Fire/Explosion Hazard:CYLINDERS ARE EQUIPPED WITH RELIEF DEVICES BUT MAY STILL RUPTURE UNDER FIRE CONDITIONS.

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===== Accidental Release Measures =====

Spill Release Procedures:AIR OUT ENCLOSED OR LOW AREAS. REMOVE OPEN FLAMES. SE

LF-CONTAINED BREATHING APPARATUS FOR LARGE LEAKS OR SPILL.

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Handling and Storage  
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Handling and Storage Precautions:AVOID CONTAINER DAMAGE.  
Other Precautions:NONE.

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Exposure Controls/Personal Protection  
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Respiratory Protection:USE NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS IF EXPOSED TO CONCENTRATIONS GREATER THAN 10%.  
Ventilation:LOCAL EXHAUST, NORMAL VENTILATION ADEQUATE. MECHANICAL (GENERAL) VENTILATION, USE IN LOW OR ENCLOSED PLACES.  
Protective Gloves:IMPERVIOUS GLOVES FOR PROLONGED CONTACT.  
Eye Protection:SPLASH GOGGLES.  
Other Protective Equipment:NONE.  
Work Hygienic Practices:DETERMINE THAT PIPING IS EMPTY BEFORE DOING MAINTENANCE WORK.  
Supplemental Safety and Health  
NONE

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Physical/Chemical Properties  
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HCC:G3  
Boiling Pt:B.P. Text:-72F,-58C  
Vapor Pres:435 PSIG  
Vapor Density:5.14  
Spec Gravity:1.57  
pH:7  
Evaporation Rate & Reference:>1 (CCL4=1)  
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Solubility in Water:0.03 WT @ 25C  
Appearance and Odor:CLEAR, COLORLESS, LIQUIFIED GAS. SLIGHT ETHERAL ODOR.

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Stability and Reactivity Data  
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Stability Indicator/Materials to Avoid:YES  
ACTIVE METALS, ALKALI, FIRES OF METAL HYDRIDES, AND MATERIAL CONTAINING OWN OXYGEN.  
Stability Condition to Avoid:NONE  
Hazardous Decomposition Products:THE PRESENCE OF FLAMES/HOT SURFACES; HYDROGEN FLUORIDE, HYDROGEN BROMIDE, BROMINE, CARBONYL FLUORIDE, CARBONYL

BROMIDE.

Conditions to Avoid Polymerization:HIGH TEMPERATURES, GOWING METAL SURFACES, OPEN FLAMES.

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

Waste Disposal Methods:COMPLY WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS. RECLAIM BY RECOVERY MACHINES AND REMOVE TO PERMITTED WASTE DISPOSAL FACILITY.

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