

ATOCHEM INC. FOREX FIRE EXTINGUISHANTS -- HALON 1211;PYROFORANE 1211;FOREX 1211 --  
6830-00-965-2309

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

Product ID:HALON 1211;PYROFORANE 1211;FOREX 1211  
MSDS Date:10/14/1987  
FSC:6830  
NIIN:00-965-2309  
MSDS Number: BHBTS  
=== Responsible Party ===  
Company Name:ATOCHEM INC. FOREX FIRE EXTINGUISHANTS  
Address:266 HARRISTOWN RD  
Box:607  
City:GLEN ROCK  
State:NJ  
ZIP:07452  
Coun  
try:US  
Preparer's Name:SAFETY & ENVIRONS AFFAIRS  
CAGE:MO388  
=== Contractor Identification ===  
Company Name:ATOCHEM INC FOREX FIRE EXTINGUISHANTS  
Address:266 HARRISTOWN RD  
Box:607  
City:GLEN ROCK  
State:NJ  
ZIP:07452  
Country:US  
Phone:800-424-9300 (CHEMTREC)  
CAGE:5P418  
Company Name:ATOCHEM INC. FOREX FIRE EXTINGUISHANTS  
Address:266 HARRISTOWN RD  
Box:607  
City:GLEN ROCK  
State:NJ  
ZIP:07452  
Country:US  
CAGE:MO388

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

Ingred Name:BROMOCHLOR

ODIFLUOROMETHANE

CAS:353-59-3

RTECS #:PA5250500

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:EYE-CONTACT WITH LIQUID CAN CAUSE BURNS. SKIN-CONTACT WITH LIQUID CAN CAUSE FROSTBITE. INHALATION-NO TROUBLE OBSERVED AT CONCENTRATIONS BELOW 20,000PPM. AT HIGHER CONCENTRATIONS, NERVOUS TROUBLES AND POSSIBLE OF CARDIAC  
|  
RREGULARITIES.

Explanation of Carcinogenicity:HALON 1211 IS NOT CLASSIFIED AS A CARCINOGEN BY IARC, NTP OR OSHA.

Medical Cond Aggravated by Exposure:NOTE TO PHYSICIAN: PRODUCT IS AN ASPHYXIANT AND MANY INDUCE CARDIAC MUSCLE SENSITIZATION TO EPINEPHRINE-LIKE COMPOUNDS. DO NOT GIVE ADRENALIN OR SIMILAR SYMPATHOMIMETIC DRUGS.

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

First Aid:EYE-FLUSH WITH FLOWING WATER FOR 15 MIN. GET MED ATTN.  
SKIN-FLUSH WITH WAT  
ER. CALL PHYSICIAN IF FROSTBITE SYMPTOMS OCCUR.  
INHALATION-REMOVE TO FRESH AIR. CALL PHYSICIAN. IF NOT BREATHING GIVE ARTIFICI AL RESPIRATION. PREFERABLTY MOUTH TO MOUTH.DO NOT GIVE EPINEPHRINE. INGESTION-DO NOT INDUCE VOMITING IF PATIENT IS UNCONSCIOUS OR HAVING CONVULSIONS.

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

Flash Point:NON-FLAMMABLE  
Extinguishing Media:NON-FLAMMABLE PRODUCT-HALON 1211 IS USED AS A FIRE EXTINGUISHING AGENT ITSELF.

Fire Fi  
ghting Procedures:SELF CONTAINED BREATHING APPARATUS MAY BE NECESSARY IF CYLINDER RUPTURES OR RELEASES PRODUCT UNDER FIRE CONDITIONS.

Unusual Fire/Explosion Hazard:THERMAL DECOMPOSITION GIVES TOXIC FUMES (HYDROBROMIC, HYDROCHLORIC, HYDROFLURIC ACIDS, POSSIBLE FREE HALOGENS AND CARBONYL HALIDES). CONT CAN RUPTURE UNDER FIRE

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

Spill Release Procedures:VENTILATE AREA, ESPECIALLY LOW AREAS WHERE HEAVY VAPORS MIGH

T COLLECT. REMOVE HOT METAL SURFACES OR SOURCE OF  
NON-EXTINGUISHED FLAMES.

Neutralizing Agent:NONE LISTED.

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

Handling and Storage Precautions:STORE AT TEMP BELOW 125F IN A WELL  
VENTILATED AREA STORAGE & HANDLING PRECAUTIONS AS APPLICABLE TO  
LIQUIFIED GASES UNDER PRESSURE.

Other Precautions:NONE LISTED.

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

Respiratory Protection:SELF-CONTAINED BREATHIN  
G APPARATUS IS REQUIRED

IF A LARGE SPILL OCCURS IN A CONFINED AREA.UNDER NORMAL CONDITIONS  
NO RESPIRATORY PROTECTION IS REQUIRED WHEN USING THIS PRODUCT.

Ventilation:LOCAL EXHAUST RECOMMENDED. MECHANICAL REQ IN LOW AREAS  
WHERE VAPORS MAY COLLECT.

Protective Gloves:YES WHEN HANDLING LIQUIFIED GAS.

Eye Protection:CHEMICAL SAFETY GOGGLES.

Other Protective Equipment:NONE LISTED.

Supplemental Safety and Health  
NONE LISTED.

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

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Boiling Pt:B.P. Text:25F

Vapor Pres:1758 MM HG

Vapor Density:5.97@68F

Spec Gravity:1.815 G/CC@68F

Evaporation Rate & Reference:LIQUIFIED GAS

Solubility in Water:NON-MISCIBLE

Appearance and Odor:COLORLESS, SLIGHT ETHERAL ODOR.

Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES

ACTIVE METALS SUCH AS ALUMINUM AND MAGNESIUM, AND FIRES INVOLVING METAL  
HYDRIDES.

Stability Condition to Avoid:EXPOS

URE TO FLAMES OR HOT SURFACES ABOVE  
850F WILL CAUSE DECOMPOSITION.

Hazardous Decomposition Products:AT TEMP >850F TOXIC FUMES  
(HYDROBROMIC, HYDROCHLORIC & HYDROFLUORIC ACIDS.POSSIBLY FREE  
HALOGENS & CARBONYL HALIDES).

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

Waste Disposal Methods:COMPLY WITH ALL FEDERAL,STATE AND LOCAL  
REGULATIONS. RECLAIM IN SUITABLE VAPOR RECOVERY EQUIPMENT.

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