

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
Cou
ntry: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
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Box:607
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CAGE:MO388

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

Ingred Name:BROMOCHLO

RODIFLUOROMETHANE

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

IRREGULARITIES.

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
ASPHYXIAN 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 WATER. CALL PHYSICIAN IF FROSTBITE SYMPTOMS OCCUR.
INHALATION-REMOVE TO FRESH AIR. CALL PHYSICIAN. IF NOT BREATHING
GIVE ARTIFICIAL RESPIRATION. PREFERABLY 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 Fighting 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 MIGRATE

HT 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 BREATHI
NG 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:EXPO

SURE 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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