

ATOCHEM INC. FOREX FIRE EXTINGUISHANTS -- HALON 1301; PYROFORANE 1301; FOREX 1301 --
6830-00-965-9647

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

Product ID:HALON 1301; PYROFORANE 1301; FOREX 1301
MSDS Date:10/14/1987
FSC:6830
NIIN:00-965-9647
MSDS Number: BHFBF
=== Responsible Party ===
Company Name:ATOCHEM INC. FOREX FIRE EXTINGUISHANTS
Address:266 HARRISTOWN RD
Box:607
City:GLEN ROCK
State:NJ
ZIP:07452
Country:US
Preparer's Name:SAFETY & ENVIRON 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:TRIFLUO

ROBROMOMETHANE (HALON 1301) (SARA III)

CAS:75-63-8

RTECS #:PA5425000

Fraction by Wt: 100%

OSHA PEL:1000 PPM

ACGIH TLV:1000 PPM; 9192

Ozone Depleting Chemical:1

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

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

Explanation of Carcinogenicity:BASED ON ANIMAL STUDIES/HUMAN

EXPERIENCES THIS PRODUCT POSESNO HAZARD TO MAN

Effects of Overexposure:EYE/SKIN: CONTACT W/L

LIQUID CAN CAUSE FROSTBITE.

INHALATION: VAPOR IS >AIR & CAN CAUSE SUFFOCATION BY REDUCING OXYGEN AVAILABLE FOR BREATHING.BREATHING VERY HIGHCONCENTRATIONS OF VAPOR CAN CAUSE LIGHT- HEADEDNESS, GIDDINESS, SHORTNESS OFBREATH, MAY LEAD TO NARCOSIS, CARDIC IRREGULARITIES, UNCONSCIOUSNESS OR DEATH

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

First Aid:EYES: IMMEDIATELY FLUSH W/FLOWING WATER FOR 15 MINUTES. GET MEDICAL ATTENTION SKIN: FLUSH WITH WATER.

CALL PHYSICIAN.

INHALATION: REMOVE TO FRESH AIR, CALL A PHYSICIAN. IF NOT BREATHING GIVE ARTIFICIAL RESPIRATION, PREFERABLY MOUTH TOMOUTH. DO NOT GIVE EPINEPHRINE. INGESTION: NEVER GIVE FLUIDS OR INDUCE VOMITING IF PATIENT IS UNCONSCIOUS OR HAVING CONVULSIONS.

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

Flash Point:NA

Extinguishing Media:HALON 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:CONTAINERS ARE EQUIPPED W/TEMPERATURE & PRESSURE RELIEF DEVICES BUT MAY STILL RUPTURE UNDER FIRE CONDTIONS. THERMAL DECOMPOSITION MAY OCCUR

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

Spill Release Procedures:VENTILATE AREA ESPECIALLY LOW PLACES WHERE HEAVY VAPORS MIGHT COLLECT. REMOVE HOT METAL SURFACES OR SOURCES OF NON EXTINGUISHE

D FLAMES.

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

Handling and Storage Precautions:STORE LIQUIFIED COMPRESSED GAS IN A CLEAN, DRY, WELL VENTILATED AREA. DO NOT HEAT ABOVE 125F.

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

Respiratory Protection:SELF CONTAINED BREATHING APPARATUS IS REQUIRED IF LARGE SPILL OCCURS IN CONFINED AREA. UNDER NORMAL CONDITIONS NO RESPIRATORY PROTECTION IS REQUIRED WHEN USING THIS PRODUCT.

Ventilation:LOCAL

EXHAUST IS RECOMMENDED.

MECHANICAL IS REQUIRED ESPECIALLY IN LOW AREAS W/VAPORS COLL

Protective Gloves:LINED BUTYL GLOVES.

Eye Protection:CHEMICAL SPLASH GOGGLES

Supplemental Safety and Health

NK

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

Boiling Pt:B.P. Text:-71.95F

Vapor Pres:220 PSIG

Vapor Density:5.14

Spec Gravity:1.538

Evaporation Rate & Reference:NA

Solubility in Water:0.03% @ 77F

Appearance and Odor:CLEAR, LIQUIFIED GAS; SLIGHT ETHERAL ODOR

P

Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES

ALKALI OR ALKALINE EARTH METAL POWDERED A1,Z ,B ,ETC. OR FIRES INVOLVING METAL HYDRIDES

Stability Condition to Avoid:EXPOSURE TO FLAMES OR HOT SURFACES ABOVE 930F WILL CAUSE DECOMPOSITION

Hazardous Decomposition Products:HALON 1301 MAYBE DECOMPOSED BY HIGH TEMP. FORMING HYDROGEN FLUORIDE, HYDROGEN BROMIDE, FREE BROMINE, POSS. CARBONYL

HALIDES

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

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

Disclaimer (provided with this information by the compiling agencies):
This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.