

E. I. DUPONT DE NEMOURS AND COMPANY -- HALON 1301 FIRE EXTINGUISHANT --
5340-01-346-0895

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

Product ID:HALON 1301 FIRE EXTINGUISHANT

MSDS Date:12/01/1985

FSC:5340

NIIN:01-346-0895

MSDS Number: BVFTX

=== Responsible Party ===

Company Name:E. I. DUPONT DE NEMOURS AND COMPANY

Address:FREON PRODUCTS DIVISION

City:WILMINGTON

State:DE

ZIP:19898

Info Phone Num:302-999-3847

302-999-4338

Emergency Phone Num:800-441-3637/800-424-9300(CHEMTREC)

Preparer's Name:T.D.ARMSTRONG

CAGE:73925

=== Contractor Identification ===

Company Name:DU PONT E I DE NEMOURS AND CO INC PETROCHEMICALS DEPT

Address:1251 BRANDYWINE BLDG

Box:City:WILMINGTON

State:DE

ZIP:19898

Phone:302-773-5676

CAGE:73925

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

Ingred Name:TRIFLUOROBROMOMETHANE (HALON 1301) (SARA III)

CAS:75-63-8

RTECS #:PA5425000

Fraction by Wt: 100%

Other

REC Limits:NONE RECOMMENDED

OSHA PEL:1000 PPM

ACGIH TLV:1000 PPM; 9394

Ozone Depleting Chemical:1

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

LD50 LC50 Mixture:LD50 INHAL RAT IS >800,000PPM(V/V)/4HRS

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO

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

Health Hazards Acute and Chronic:HALON IS HEAVIER THAN AIR AND REDUCES
OXYGEN AVAILABLE TO SUPPORT LIFE(AND COMBUSTION).EYE:POSSIBLE
FROSTBITE.SKIN:POSSIBLE

FROSTBITE.INHAL:POSSIBLE

ASPHYXIATION.INGEST:UNLIKELY ROUTE OF EXPOSURE.

Explanation of Carcinogenicity:NONE OF THE COMPOUNDS IN THIS PRODUCT IS LISTED BY IARC, NTP, OR OSHA AS A CARCINOGEN.

Effects of Overexposure:BELOW 10%, FEELING OF MILD INTOXICATION. ABOVE 10%, MAY LEAD TO CARDIAC IRREGULARITIES,NARCOSIS,UNCONSCIOUSNESS AND POSSIBLY DEATH.AVOID EXPOSURE TO CONCENTRATIONS ABOVE 15%.

Medical Cond Aggravated by Exposure:CARDIAC PROBLEMS MAY BE AGGRAVATED BY EXPOSURE.

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

First Aid:REMOVE VICTIM TO FRESH AIR. RESCUSCITATE BY MOUTH-TO-MOUTH;GIVE OXYGEN. GIVE SYMPTOMATIC AND SUPPORTIVE CARE. GET MEDICAL ATTENTION. NOTE: ADRENALIN IS CONTRAINDICATED IN THE TREATMENT OF OVEREXPOSUR E TO HALON 1301.

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

Flash Point:NONE

Extinguishing Media:NON-FLAMMABLE. USE EXTINGUISHING MEDIA APPROPRIATE FOR SURROUNDING FIRE.

Fire Fight

ing Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY.

Unusual Fire/Explosion Hazard:FIRE CONDITIONS MAY EVOLVE TOXIC FUMES.CONTAINERS HAVE A PRESSURE RELIEF VALVE BUT CAN STILL RUPTURE UNDER INTENSE HEAT.

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

Spill Release Procedures:AVOID HOTMETAL SURFACES.USE LOCAL EXHAUST FOR LARGE SPILLS.USE MECHANICAL VENTI LATION IN LOW PLACES.

Neutralizing Agent:NOT APPLICABLE.

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

Handling and Storage Precautions:STORE IN COOL, WELL VENTILATED AREA. KEEP AWAY FROM HEAT AND OPEN FLAMES. AVOID CONTAINER DAMAGE.

Other Precautions:DETERMINE THAT PIPING IS EMPTY BEFORE DOING MAINTENANCE WORK.CHECK FOR ADEQUATE OXYGEN BEFORE ENTERING CONFINED SPACES.

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

Respiratory Protection

:PROVIDE A SELF CONTAINED BREATHING APPARATUS

AFTER:15 MINUTES OF 7%;1 MINUTE OF 7-10%;30 SECONDS OF 10-15% OR
WHEN CONCENTRATION IS >15 PERCENT.

Ventilation:USE LOCAL EXHAUST FOR LARGE SPILLS.USE MECHANICAL
VENTILATION IN LOW PLACES.

Protective Gloves:NOT NEEDED IN NORMAL SERVICE.

Eye Protection:SAFETY GLASSES

Other Protective Equipment:NONE

Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND
RECOMMENDED PROCEDURES. USE PROPER CARE WHEN HANDLING AND STORING.

Supp

lemental Safety and Health

NOTE TO PHYSICIAN: PRODUCT IS AN ASPHYXIANT AND MAY INDUCE CARDIAC
MUSCLE SENSITIZATION TO EPENIPHRINE-LIKE COMPOUNDS. DO NOT
ADRENALIN OR SIMILAR SYMPATHOMIMETIC DRUGS.

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

HCC:G3

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

Decomp Temp:Decomp Text:1000F,538C

Vapor Pres:11370

Spec Gravity:1.538

Solubility in Water:NEGLIGIBLE

Appearance and Odor:GAS, COLORLESS, SWEET ETHEREAL ODOR.

Percent Volatiles by Volume

:100

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

Stability Indicator/Materials to Avoid:YES

ACTIVE METALS, FIRES OF METAL HYDRIDES, AND MATERIALS CONTAINING OWN
OXYGEN.

Stability Condition to Avoid:HIGH HEAT ABOVE 1000F, OPEN FLAMES.

Hazardous Decomposition Products:HYDROBROMIC, HYDROCHLORIC, AND
HYDROFLUORIC ACIDS, POSSIBLE FREE HALIDES AND CARBONYL HALIDES.

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

Waste Disposal Methods:DISPOSE OF

IN ACCORDANCE WITH FEDERAL, STATE AND
LOCAL REGULATIONS. RECLAIM WHERE POSSIBLE.

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