

DU PONT E I DE NEMOURS & CO INC -- HALON 1301 FIRE EXTINGUISHANT -- 1680-00-758-0025  
===== Product Identification =====

Product ID:HALON 1301 FIRE EXTINGUISHANT

MSDS Date:02/14/1992

FSC:1680

NIIN:00-758-0025

MSDS Number: BGVJK

=== Responsible Party ===

Company Name:DU PONT E I DE NEMOURS & CO INC

Address:1251 BRANDYWINE BLDG

City:WILMINGTON

State:DE

ZIP:19898

Country:US

Info Phone Num:302-773-567

6

Emergency Phone Num:302-773-5676

Preparer's Name:W J BROCK

CAGE:0BA38

=== 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

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

Address:DELLE DONNE CORPORATE CTR

City:WILMINGTON

State:DE

ZIP:19880-0800

Country:US

Phone:800-441-7515

CAGE:0BA38

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

=====

Ingred Name:FREON 1301, TRIFLUOROMONOBROMOMETHANE  
CAS:75-63-8  
RTECS #:PA5425000  
Fraction by Wt: 100%  
Other REC Limits:1000 PPM  
OSHA PEL:6100 MG/CUM  
ACGIH TLV:6090 MG/CUM  
Ozone Depleting Chemical:1

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

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:INHALATION: DISCOMFORT, SUCH AS  
NAUSEA, HEADACHE OR WEAKNESS; OR TEMPORARY  
CNS DEPRESSION EFFECTS.  
ALTERATION OF THE HEART'S ELECTRICAL ACTIVITY W/IRREGULAR PULSE,  
PALPITATIONS OR INADEQUATE CIRCULATION. SKIN/EYES: FROSTBITE.  
Explanation of Carcinogenicity:NONE  
Medical Cond Aggravated by Exposure:CENTRAL NERVOUS OR CARDIOVASCULAR  
SYSTEM DISEASES.

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

First Aid:INHALATION: REMOVE TO FRESH AIR. KEEP PERSON CALM. IF NOT  
BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT,  
GIVE OXYGEN. SKIN/EYES: FLUSH W/PLENTY OF WATER FOR 15 MINS. TREAT  
FOR FROSTBITE IF NECESSARY. OBTAIN MED ATTN IN ALL CASES. NOTE TO  
PHYSICIAN: USE CATECHOLAMINE DRUGS (EPINEPHRINE) W/CAUTION IN  
SITUATIONS OF EMERGENCY LIFE SUPPORT BECAUSE OF POSSIBLE HEART  
IRREGULARITIES.

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

Extinguishing Media:AS APPROPRIATE FOR COMBUSTIBLES IN AREA  
Fire Fighting Procedures:USE WATER SPRAY OR FOG TO COOL CONTAINERS. USE  
S

CBA IF CYLINDERS RUPTURE OR RELEASE UNDER FIRE CONDITIONS.  
Unusual Fire/Explosion Hazard:CYLINDERS ARE EQUIPPED W/TEMPERATURE &  
PRESSURE RELIEF DEVICES BUT MAY STILL RUPTURE UNDER FIRE  
CONDITIONS. DECOMPOSITION MAY OCCUR.

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

Spill Release Procedures:USE APPROPRIATE PROTECTIVE EQUIPMENT.  
VENTILATE AREA, ESPECIALLY LOW OR ENCLOSED PLACES WHERE HEAVY  
VAPORS MIGHT COLLECT. REMOVE OPEN FLAMES. USE SCBA FOR LARGE LEAK  
OR SPILL.

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

Handling and Storage Precautions:STORE IN CLEAN, DRY AREA. DON'T HEAT  
>125F.  
Other Precautions:AVOID BREATHING VERY HIGH CONCENTRATION OF VAPORS &  
CONTACT W/SKIN OR EYES.

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

Respiratory Protection:UNDER NORMAL MANUFACTURING CONDITIONS NO  
RESPIRATORY PROTECTION IS REQUIRED WHEN USING THIS PRODUCT. USE  
SCBA FOR LARGE SPILLS.

Ventilati  
on:NORMAL VENTILATION IS ADEQUATE. LOCAL EXHAUST: WHEN LARGE  
AMOUNTS ARE RELEASED. MECHANICAL: WHEN IN LOW/ENCLOSED AREAS.

Protective Gloves:IMPERVIOUS

Eye Protection:CHEMICAL SPLASH GOGGLES

Supplemental Safety and Health  
CCL4 = CARBON TETRACHLORIDE

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

HCC:G3

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

Vapor Pres:235 PSIA

Vapor Density:5.14

pH:7

Evaporation Rate & Reference:(CCL4 = 1): >1 SEE SUPP

Solubility in Water:0.03WT%

Appearance

and Odor: CLEAR COLORLESS LIQUIFIED GAS W/SLIGHT ETHEREAL  
ODOR.

Percent Volatiles by Volume: 100/WT

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

Stability Indicator/Materials to Avoid: YES

ALKALI OR ALKALINE EARTH METALS-POWDERED ALUMINUM, ZINC & BERYLLIUM.

Stability Condition to Avoid: OPEN FLAMES OR TEMPERATURE >1000F

Hazardous Decomposition Products: FREE BROMINE & POSSIBLY CARBONYL  
HALIDES

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

Waste

Disposal Methods: DISPOSE OF IN ACCORDANCE W/LOCAL, STATE, &  
FEDERAL REGULATIONS OR RECLAIM BY DISTILLATION OR REMOVE TO  
PERMITTED WASTE DISPOSAL FACILITY.

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.