

IE DUPONT DE NEMOURS CO INC -- HALON 1301 (FIRE EXTINGUISHANT) -- 6830-01-294-4455

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

Product ID:HALON 1301 (FIRE EXTINGUISHANT)

MSDS Date:11/09/1995

FSC:6830

NIIN:01-294-4455

Status Code:A

MSDS Number: CJFMP

==== Responsible Party ===

Company Name:IE DUPONT DE NEMOURS CO INC

Address:1007 MARKET STREET

City:WILMINGTON

State:DE

ZIP:19898

Country:US

Info Phone Num:1-80

0-441-9442

Emergency Phone Num:800-441-3637

Chemtrec Ind/Phone:(800)424-9300

CAGE:0UFA8

==== Contractor Identification ===

Company Name:DDRV STOCK MAINTENANCE DIV/DDRV-H

Address:8000 JEFFERSON-DAVIS HIGHWAY

Box:City:RICHMOND

State:VA

ZIP:23297

Country:US

Phone:804-279-3125

CAGE:02LX8

Company Name:DU PONT FLUOROPRODUCTS

Address:1007 MARKET STREET

Box:City:WILMINGTON

State:DE

ZIP:19898

Country:US

Phone:1-800-441-7515

CAGE:2S827

Company Name:FIRE-X CORP

Address:3305 CROFT ST

Box:City:NORFOLK

State:V

A

ZIP:23513-4903

Country:US

Phone:775-855-0196

CAGE:6K586

Company Name:FIRE-X OF VA (804-266-8844)

Address:6107 STAPLES MILL RD

Box:9757

City:RICHMOND

State:VA

ZIP:23225

Country:US

Phone:804-266-8844

CAGE:0FA36

Company Name:IE DUPONT DE NEMOURS CO INC

Address:1007 MARKET STREET

Box:City:WILMINGTON

State:DE

ZIP:19898

Country:US

Phone:1-800-441-9442

CAGE:0UFA8

Company Name:KIDDE FENWAL INC

Address:400 MAIN ST

Box:City:ASHLAND

State:MA

ZIP:01721-2150

Country:US

Phone:508-881-2000

CAGE:0KDP7

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===== 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 SPECIFIED

OSHA PEL:1000 PPM

ACGIH TLV:1000 PPM; 9192

Ozone Depleting Chemical:1

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

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

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

Health Hazards Acute and Chronic:HEALTH HAZ

ARDS: INHALATION OF HIGH

CONCENTRATIONS OF VAPOR IS HARMFUL & MAY CAUSE HEART IRREGULARITIES, UNCONSCIOUSNESS & DEATH. INTENTIONAL MISUSE CAN BE FATAL. VAPOR REDUCES OXYGEN AVAILABLE FOR BREATHING & IS HEAVIER THAN AIR. LIQUID CONTACT CAN CAUSE FROSTBITE.

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

Effects of Overexposure: INHALATION: NONSPECIFIC DISCOMFORT, SUCH AS NAUSEA, HEADACHE OR WEAKNESS; OR TEMPORARY CNS DEPRESSION WITH

EFFECTS SUCH AS DIZZINESS, HEADACHE, CONFUSION, INCOORDINATION & LOSS OF CONSCIOUSNESS. HIGHER EXPOSURES BY INHALATION MAY CAUSE TEMPORARY ALTERATION OF THE HEART'S ELECTRICAL ACTIVITY WITH IRREGULAR PULSE, PALPITATIONS, OR INADEQUATE CIRCULATION.

Medical Cond Aggravated by Exposure: PERSONS WITH PREEXISTING DISEASES OF THE CENTRAL NERVOUS OR CARDIOVASCULAR SYSTEM MAY HAVE INCREASED SUSCEPTIBILITY TO THE TOXICITY OF EXCESSIVE EXPOSURE.

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

First Aid: EYE: IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR 15 MINUTES. CALL A DOCTOR. SKIN: FLUSH WITH WATER. TREAT FOR FROSTBITE IF NECESSARY. INHALE: REMOVE TO FRESH AIR. IF NOT BREATHING GIVE CPR. IF BREATHING IS DIFFICULT, GIVE OXYGEN & CALL A DOCTOR. INGEST: INGESTION IS NOT CONSIDERED A POTENTIAL ROUTE OF EXPOSURE.

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

Flash Point: WILL NOT BURN

Extinguishing Media: AS APPROPRIATE FOR COMBUSTIBLES IN AREA.

Fire Fighting Procedures: USE WATER SPRAY OR FOG TO COOL CONTAINERS.

SELF-CONTAINED BREATHING APPARATUS IS REQUIRED IF CYLINDERS RUPTURE OR RELEASE UNDER FIRE.

Unusual Fire/Explosion Hazard: CYLINDERS ARE EQUIPPED WITH TEMPERATURE AND PRESSURE RELIEF DEVICES BUT MAY STILL RUPTURE UNDER FIRE CONDITIONS. DECOMPOSITION MAY OCCUR.

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

Spill Release Procedures: S

PILL-VENTILATE AREA, ESPECIALLY LOW PLACES

WHERE HEAVY VAPORS MIGHT COLLECT. REMOVE OPEN FLAMES. USE SELF
CONTAINED BREATHING APPARATUS FOR LARGE SPILLS.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:STORAGE-STORE IN A CLEAN, DRY AREA. DO
NOT HEAT ABOVE 125F.

Other Precautions:AVOID BREATHING VERY HIGH CONCENTRATIONS OF VAPORS.
AVOID CONTACT OF EYES OR SKIN WITH LIQUID. PYR
OLYSIS PRODUCTS MAY
PRODUCE IRRITATING & CORROSIVE GASES.

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

Respiratory Protection:UNDER NORMAL CONDITIONS NO RESPIRATORY
PROTECTION IS REQUIRED. SCBA IS REQUIRED IF A SPILL OCCURS.

Ventilation:NORMAL VENTILATION IS O.K. FOR NORMAL PROCEDURE. USE LOCAL
EXHAUST FOR LARGE AMOUNTS & MECHANICAL FOR USE IN LOW PLACES.

Protective Gloves:IMPERVIOUS GLOVES SHOULD BE USED TO AVOID PROLONGED
OR REPEATED EXPOSURE.

Eye Protection:

CHEMICAL SPLASH GOGGLES SHOULD BE WORN

Other Protective Equipment:NONE SPECIFIED BY MANUFACTURER.

Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

NOTE TO PHYSICIAN: BECAUSE OF POSSIBLE DISTURBANCE OF CARDIAC RHYTHM,
CATECHOLAMINE DRUGS, SUCH AS EPINEPHRINE, SHOULD BE CONSIDERED ONLY
AS A LAST RESORT IN LIFE-THREATENING EMERGENCIES.

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

HCC:G3

NRC/State Lic Num:NONE

Boiling Pt:=

-58.C, -72.4F

Vapor Pres:235 PSIA AT 25C

Vapor Density:5.14

Spec Gravity:1.54

pH:NEUTRAL

Evaporation Rate & Reference:>1 (CC14=1)

Solubility in Water:0.03 WT.% AT 25C

Appearance and Odor:COLORLESS, LIQUIFIED GAS, SLIGHT ETHEREAL ODOR

Percent Volatiles by Volume:100%

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

Stability Indicator/Materials to Avoid:YES

ALKALI OR ALKALINE EARTH METALS-POWDERED AL, ZN, BE, ETC.

Stability Condition to Avoid:HIGH TEMPERATURES, SPARKS, AN

D OPEN FLAMES

Hazardous Decomposition Products:HALON 1301 MAY BE DECOMPOSED BY HIGH TEMPERATURES (OPEN FLAMES, ETC) FORMING FREE BROMINE AND POSSIBLY CARBONYL HALIDES.

===== Toxicological Information =====

Toxicological Information:INHALATION 1-HOUR LC50: >770,000 PPM IN RATS.

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

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS. RECLAIM BY DISTILLATION OR REMOVE TO PERMITTED WASTE DISPOSAL FACILITY.

===== MSDS Transport Information =====

Transport Information:DOT/IMO PROPER SHIPPING NAME:
BROMOTRIFLUOROMETHANE, HAZARD CLASS 2.2, UN1009.

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