

CHEMTRONICS, INC -- REFRIGERANT 113 -- 6830-00-584-2957

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

Product ID:REFRIGERANT 113

MSDS Date:10/15/1990

FSC:6830

NIIN:00-584-2957

MSDS Number: BMQSW

=== Responsible Party ===

Company Name:CHEMTRONICS, INC

Address:8125 COBB CENTRE DRIVE

City:KENNESAW

State:GA

ZIP:30144

Country:US

Info Phone Num:404-424-4888

Emergency Phone Num:404-424-4888

Preparer's Name:MICHAEL

S WATKINS

CAGE:DO133

=== Contractor Identification ===

Company Name:CHEMTRONICS INC

Address:8125 COBB CENTER DRIVE

Box:City:KENNESAW

State:GA

ZIP:30152

Country:US

Phone:770-424-4888/800-645-5244

CAGE:21267

Company Name:CHEMTRONICS, INC

Address:8125 COBB CENTER DRIVE

City:KENNESAW

State:GA

ZIP:30144

Phone:800-424-9300

CAGE:DO133

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

Ingred Name:TRICHLOROTRIFLUOROETHANE

CAS:76-13-1

RTECS #:KJ4000000

Fraction by Wt: 100%

Other REC

Limits:NONE SPECIFIED
OSHA PEL:1000PPM/1250PPM STEL
ACGIH TLV:1000PPM/1250PPM STEL
Ozone Depleting Chemical:1

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

LD50 LC50 Mixture:LC50 RAT 52,000PPM/4 HR. *
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:INHALATION: VAPOR IS HEAVIER THAN AIR
& CAN CAUSE SUFFOCATION BY REDUCING OXYGEN AVAILABLE FOR BREATHING.
SKIN: REPEATED L
LIQUID CONTACT CAN CAUSE DEFATTING OF SKIN.
INGESTION: ORAL TOXICITY IS LOW, INGESTION OF REFRIGERANT 113 IS
TO BE AVOIDED. EYES: LIQUID CONTACT CAN CAUSE DISCOMFORT. USUALLY
NO EXTENDED EFFECT.
Effects of Overexposure:INHAL: BREATHING HIGH CONCENTRATIONS OF VAPOR
CAN CAUSE LIGHT-HEADEDNESS, GIDDINESS, SHORTNESS OF BREATH AND MAY
LEAD TO NARCOSIS, CARDIAC IRREGULARITIES, UNCONSCIOUSNESS OR DEATH.
SKIN: IRRITATION OR REDDENING MAY OCCUR DUE TO DEFATTING. INGEST:
MAY CAUSE
NAUSEA & VOMITING. EYE: CONTACT MAY CAUSE TEMPORARY
DISCOMFORT.
Medical Cond Aggravated by Exposure:CARDIOVASCULAR DISEASE. SEE
INHALATION SECTION.
*ALD RABBIT >
11,000 MG/KG. LD50 RATS 43,000 MG/KG.

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

First Aid:INHAL: REMOVE TO FRESH AIR. CALL DR. IF NOT BREATHING, GIVE
ARTIF RESP (MOUTH-TO-MOUTH). IF BREATHING IS DIFFICULT GIVE OXYGEN.
DON'T GIVE EPINEPHRINE/SIMILAR DRUGS. SKIN: FLUSH
W/WATER. IF IRRITATED
CALL DR. INGEST: CALL DR IF NECESSARY. DON'T INDUCE
VOMITING (GREATER HAZARD OF ASPIRATION OF MATERIAL INTO LUNGS THAN
ALLOWING PASS THRU INTEST TRACT). EYE: IMMEDIATELY FLUSH W/WATER 15 MIN.
CALL DR.

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

Flash Point:NONE
Lower Limits:NONFLAMMABLE
Upper Limits:NONFLAMMABLE
Extinguishing Media:NONEFLAMMABLE
Fire Fighting Procedures:SELF-CONTAINED BREATHING APPARATUS (SCBA) MAY
BE REQUIRED

RED IF AEROSOL CONTAINERS RUPTURE AND CONTENTS ARE RELEASED UNDER FIRE CONDITIONS.

Unusual Fire/Explosion Hazard:DRUMS MAY RUPTURE UNDER FIRE CONDITIONS. DECOMPOSITION MAY OCCUR.

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

Spill Release Procedures:VENTILATE AREA. REMOVE OPEN FLAMES OR OTHER SOURCES OF IGNITION. COLLECT SPILLED PRODUCT WITH ABSORBENT MATERIAL AND PLACE IN CLOSED STEEL DRUMS FOR PROPER DISPOSAL.

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

Handling and Storage Precautions:DON'T STORE NEAR SOURCES OF HEAT, IN DIRECT SUNLIGHT, OR WHERE TEMPERATURES EXCEED 120 F. DON'T PUNCTURE OR DAMAGE CONTAINERS. ROTATE STOCK.

Other Precautions:CONTAINS CHEMICALS LISTED ON THE TSCA INVENTORY.

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

Respiratory Protection:GOOD VENTILATION/H.C. RESP AS NEEDED TO COMPLY WITH TLV.

Ventilation:NORMAL VENT--STANDARD MFR PROCEDURES GENERALLY ADEQUATE.

LOCAL EXHAUST WHEN LRG AMTS RELEASED. MECH VENT IN LOW PLACES.

Protective Gloves:BUTYL

Eye Protection:CHEM SPLASH GOGGLES

Other Protective Equipment:EYE BATH & PROTECTIVE CLOTHES.

Supplemental Safety and Health

NOTE TO DR: BECAUSE OF POSSIBLE INCREASED RISK OF ELICITING CARDIAC DYSRHYTHMIAS, CATECHOLINAMINE DRUGS (EPINEPHRINE), SHOULD BE USED ONLY AS LAST RESORT IN LIFE THREATENING EMERGS.

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

HCC:N1

Boiling Pt:B.P. Text

:118F,48C

Vapor Pres:334 @ 77F

Vapor Density:6.5 @ 77F

Spec Gravity:1.57 (WATER=1)

Evaporation Rate & Reference:>1 (BU AC=1)

Solubility in Water:NEGLIGIBLE

Appearance and Odor:COLORLESS LIQUID; SLIGHT ETHEREAL ODOR.

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

Stability Indicator/Materials to Avoid:YES

ALKALI AND ALKALINE EARTH METALS, POWDERED AL, ZN, BE OR MG.

Stability Condition to Avoid:AVOID SPRAYING NEAR OPEN FLAMES OR RED HOT SURFACES. DO NOT PUNCTURE OR I

INCINERATE CONTAINERS.

Hazardous Decomposition Products:HYDROCHLORIC & HYDROFLUORIC ACIDS & POSSIBLY CARBONYL HALIDES.

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

Waste Disposal Methods:DOMPLY WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS. 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.