

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 L

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

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===== 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 LI
QUID CONTACT CAN CAUSE DEFATTING OF SKIN.
INGESTION: ORAL TOXICITY IS LOW, IN GESTION 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 CA
USE 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.

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===== 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: FL
USH W/WATER. IF IRRIT
OCCU RS. 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: IMMED FLUSH W/WATER 15 MIN.
CALL DR.

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===== 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 REQUIR

ED 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 IN

CINERATE 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.

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