

CHEMTRONICS INC -- R-22 -- 6830-00-935-9896

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

Product ID:R-22

MSDS Date:08/01/1987

FSC:6830

NIIN:00-935-9896

MSDS Number: BFYCY

=== Responsible Party ===

Company Name:CHEMTRONICS INC

Address:8125 COBB CENTER ROAD

City:KENNESAW

State:GA

ZIP:30144

Country:US

Info Phone Num:404-424-4888

Emergency Phone Num:404-424-4888

Preparer's Name:HAL ALPER

CAGE:2M589

=== Contract

or 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 (CANCELLED USE 21267)

City:HAUPPAUGE

State:NY

ZIP:11760

Country:US

CAGE:2M589

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

Ingred Name:CHLORODIFLUOROMETHANE

CAS:75-45-6

RTECS #:PA6390000

Fraction by Wt: 100%

OSHA PEL:1000 PPM

ACGIH TLV:1000PPM; 9192

Ozone Depleting Chemic

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

LD50 LC50 Mixture:2 HOUR LC50 RATS IS 300,000 PPM

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

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

Health Hazards Acute and Chronic:PRODUCT IS NEITHER CORROSIVE NOR AN IRRITANT. IT WILL DEFAT & DRY SKIN,POSSIBLY CAUSING DERMATITIS.

VAPOR IS HEAVIER THAN AIR AND CAN CAUSE SUFFOCATION BY REDUCING OXYGEN AVAILABLE FOR BREATHING. HIGH EVAPORATION RATE

MAY COOL

TISSUES SUFFICIENTLY TO CAUSE FROSTBITE.

Explanation of Carcinogenicity:PRODUCT IS NOT LISTED AS A CARCINOGEN BY IARC, NTP OR OSHA.

Effects of Overexposure:BREATHING HIGH CONCENTRATIONS OF VAPOR MAY CAUSE LIGHT-HEADEDNESS, GIDDINESS, SHORTNESS OF BREATH, AND MAY LEAD TO NARCOSIS, CARDIAC IRREGULARITIES, UNCONSCIOUSNESS OR DEATH. LIQUID CAN CAUSE DEFATTIN G OF TISSUE.

Medical Cond Aggravated by Exposure:SKIN DISEASE - PRODUCT IS A DEFATTING AGENT AND CAN CAUSE DE

RMATITIS ON PROLONGED EXPOSURE.

PERSONS WITH PRE-EXISTING SKIN DISORDERS MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THIS AGENT.

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

First Aid:EYE:FLUSH W/ WATER 15 MIN HOLD LIDS OPEN SEE A DOCTOR.

SKIN:WASH WITH SOAP & WATER. TREAT FOR FROST-BITE IF NEEDED.

INHALED:REMOVE TO FRESH AIR. RESTORE BREATHING, AS NEEDED. DO NOT GIVE EPINEPHRINE OR SIMILAR DRUGS. INGESTED:DO NOT INDUCE

VOMITING. GET IMMEDIATE M

EDICAL CARE. IF IRRITATION PERSISTS,OR

IS SEVERE,SEE A DOCTOR.

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

Flash Point:NON-FLAMMABLE

Lower Limits:NONE

Upper Limits:NONE

Extinguishing Media:PRODUCT IS NON FLAMMABLE. EXTINGUISH FIRE WITH MEDIA APPROPRIATE FOR SOURCE OF FIRE.

Fire Fighting Procedures:FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE. USE WATER SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO

FIRE.

Unusual Fire/Explosion Hazard:CYLINDER MAY RUPTURE UNDER FIRE CONDITIONS. FIRE OR EXCESSIVE HEAT MAY CAUSE PRODUCTION OF HAZARDOUS DECOMPOSITION PRODUCTS.

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

Spill Release Procedures:VENTILATE AREA. DO NOT FLUSH INTO SEWERS. COLLECT ON ABSORBENT MATERIAL AND TRANSFER TO STEEL DRUMS FOR RECOVERY OR DISPOSAL.

Neutralizing Agent:NONE

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

Handlin

g and Storage Precautions:STORE IN A CLEAN, COOL (BELOW 125F), DRY AND WELL-VENTILATED AREA OF LOW FIRE RISK. PROTECT CONTAINERS FROM PHYSICAL DAMAGE AND KEEP CLOSED.

Other Precautions:TANK-CLEANING PERSONNEL SHOULD USE ONLY FORMAL TANK ENTRY PROCEDURE BASED ON RECOGNIZED SAFETY PRINCIPLES. APPLY ALL SAFETY PRECAUTIONS TO EMPTY CONTAINERS AS THEY MAY CONTAIN PRODUCT RESIDUES/VAPORS.

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

Respiratory Protection:R

ESPIRATOR WILL NOT NORMALLY BE NECESSARY. USE NIOSH/MSHA APPROVED AIR SUPPLIED RESPIRATOR OR SELF CONTAINED BREATHING APPARATUS IF EXPOSURE IS ABOVE THE TLV/PEL. SEE 29 CFR 1910.134 FOR REGULATIONS PERTAINING TO RESPIRATOR USE.

Ventilation:PROVIDE LOCAL EXHAUST AT FILLING ZONES AND OTHER OPERATING SPACES WHERE LEAKAGE IS PROBABLE. MECHANICAL FOR OTHER.

Protective Gloves:LINED BUTYL RUBBER, PVA OR NEOPRENE

Eye Protection:SAFETY GLASSES OR SPLASH GOGGLES

Other Protective Equipmen

t:USE IMPERVIOUS CLOTHING IF THERE IS DANGER OF REPEATED OR PROLONGED CONTACT WITH LIQUID.

Work Hygienic Practices:USE GOOD CHEMICAL HYGIENE PRACTICE. AVOID CONTACT. REMOVE AND WASH CLOTHING PROMPTLY UPON CONTAMINATION.

Supplemental Safety and Health

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

HCC:G3

Boiling Pt:B.P. Text:-41.4F,-41C

Melt/Freeze Pt:M.P/F.P Text:-256F,-160C

Vapor Pres:138 PSIG

Vapor Density:2.98

Spec Gravity:1.194

Solubility in Water:0.30%

Appear

ance and Odor: CLEAR-COLORLESS GAS, SLIGHT ETHEREAL ODOR

Percent Volatiles by Volume: 100

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

Stability Indicator/Materials to Avoid: YES

ALKALI OR ALKALINE EARTH METALS, AND POWDERED ALUMINUM, ZINC, BERYLLIUM, ETC.

Stability Condition to Avoid: HIGH TEMPERATURES, SPARKS, AND OPEN FLAMES

Hazardous Decomposition Products: DECOMPOSED BY HIGH TEMPERATURES (OPEN FLAMES, GLOWING METAL SURFACES, ETC.) FORMING HYDROCHLORIC AND HYDROFLUORIC ACIDS.

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

Waste Disposal Methods: DISPOSE I/A/W ALL FEDERAL, STATE AND LOCAL REGULATIONS. MANUFACTURER SUGGESTS THAT RECLAMATION BY DISTILLATION OR DISPOSAL BY A PERMITTED FACILITY.

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