

MICRO CARE CHEMICAL CORP -- MICRO FREEZE CIRCUIT COOLER; MCC-FRZ -- 6850-01-409-2602

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

Product ID:MICRO FREEZE CIRCUIT COOLER; MCC-FRZ

MSDS Date:02/06/1995

FSC:6850

NIIN:01-409-2602

MSDS Number: BXYHH

=== Responsible Party ===

Company Name:MICRO CARE CHEMICAL CORP

Address:34 RONZO RD

City:BRISTOL

State:CT

ZIP:06010

Country:US

Info Phone Num:203-585-7912

Emergency P

hone Num:203-585-7912

CAGE:0ATV9

=== Contractor Identification ===

Company Name:MCKEOWN ROBERT CO. INC.

Address:111 CHAMBERS BROOK RD.

Box:City:SOMERVILLE

State:NJ

ZIP:08876

Country:US

Phone:908-218-9000

Contract Num:SP0414-00-M-2107

CAGE:7B953

Company Name:MICRO CARE CHEMICAL CORPORATION

Address:34 RONZO ROAD

Box:City:BRISTOL

State:CT

ZIP:06010

Country:US

Phone:860-585-7912

CAGE:0ATV9

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

Ingred Name:TETRAFLUOROETHANE

CAS:811-97

-2
Fraction by Wt: 100%
Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:NOT GIVEN FOR PRODUCT
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:INHALATION OF HIGH CONCENTRATIONS OF VAPOR IS HARMFUL & MAY CAUSE HEART IRREGULARITIES, UNCONSCIOUSNESS OR DEATH. INTENTIONAL MISUSE OR DELIBERATE INHALATION MAY CAUSE DEATH WITHOUT WARNING. VAPOR REDUCES OXYGEN FOR BREATHING AND IS HEAVIER THAN AIR. LIQUID CONTACT MAY CAUSE FROSTBITE. WILL IRRITATE EYES.
Explanation of Carcinogenicity:THIS COMPOUND CONTAINS NO INGREDIENTS AT CONCENTRATIONS OF 0.1% OR GREATER THAT ARE CARCINOGENS OR SUSPECT CARCINOGENS.
Effects of Overexposure:ALTERATION OF HEARTS ELECTRICAL ACTIVITY WITH IRREGULAR PULSE, PALPITATION OR INADEQUATE CIRCULATION. UNCONSCIOUSNESS, DEATH, FROSTBITE, EYE IRRITATION.
Medical Condition aggravated by Exposure:INDIVIDUALS WITH PREEXISTING DISEASE OF THE CNS OR CARDIOVASCULAR SYSTEM MAY HAVE INCREASED SUSCEPTIBILITY TO THE TOXICITY OF EXCESSIVE EXPOSURES.

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

First Aid:EYES: FLUSH WITH WATER FOR 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING. WASH WITH SOAP AND WATER. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION. INHALATION: REMOVE TO FRESH AIR. RESTORE BREATHING. GET MEDICAL ATTENTION. INGESTION: NOT CONSIDERED A POTENTIAL ROUTE OF EXPOSURE.

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

Flash Point:NONFLAMMABLE
Lower Limits:NOT GIVEN
Upper Limits:NOT GIVEN
Extinguishing Media:CARBON DIOXIDE, DRY CHEMICAL OR WATER.
Fire Fighting Procedures:FIRE FIGHTERS SHOULD WEAR SELF CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE GEAR. COOL TANKS AND CONTAINERS EXPOSED TO FIRE WITH WATER SPRAY.
Unusual Fire/Explosion:

xplosion Hazard:CONTAINERS GENERATE PRESSURE WHEN HEATED
CAUSING VIOLENT BURSTING & DANGEROUS PROPELLING OF CONTAINERS.
FORMS TOXIC DECOMPOSITION PRODUCTS ABOVE 250F, 120C.

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

Spill Release Procedures:EVACUATE AREA. REMOVE UNPROTECTED PERSONNEL.
PROTECTED PERSONNEL SHOULD REMOVE IGNITION SOURCES AND SHUT OFF
FIRE SOURCES. PROVIDE VENTILATION.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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== Handling and Storage =====

Handling and Storage Precautions:STORE IN CLEAN, DRY AREA. DO NOT HEAT
OVER 125F. VAPORS ARE HEAVIER THAN AIR AND MAY CONCENTRATE IN LOW,
POORLY VENTILATED AREAS.

Other Precautions:AVOID BREATHING VAPORS. USE ONLY WITH ADEQUATE
VENTILATION. AVOID LIGHTED CIGARETTES, FLAMES, WELDING OR HOT SPOTS
WHICH MAY GENERATE TOXIC DECOMPOSITION PRODUCTS.

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

Respiratory Protecti

on:IF VENTILATION EQUIPMENT IS NOT SUFFICIENT TO
KEEP AIRBORNE CONCENTRATIONS BELOW LIMITS, A NIOSH APPROVED
RESPIRATOR SHOULD BE WORN.

Ventilation:ADEQUATE. LOCAL EXHAUST FOR POORLY VENTILATED AREAS.

Protective Gloves:NEOPRENE

Eye Protection:CHEMICAL PROTECTIVE SAFETY GLASSES

Other Protective Equipment:PROTECTIVE CLOTHING FOR REPEATED CONTACT-
PVA OR NEOPRENE PREFERRED.

Work Hygienic Practices:WASH HANDS THOROUGHLY WITH SOAP AND WATER
BEFORE EATING, DRINKING, SMOKING OR USING TO
ILET FACILITIES.

Supplemental Safety and Health

IN POORLY VENTILATED AREAS, A NIOSH/MSHA APPROVED (TC-19C) SUPPLIED AIR
RESPIRATOR OR SELF-CONTAINED BREATHING APPARATUS IS REQUIRED.

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

HCC:V2

Boiling Pt:=-26.7C, -16.F

Melt/Freeze Pt:M.P/F.P Text:NOT GIVEN

Vapor Pres:96 PSIA

Vapor Density:3.18

Spec Gravity:1.21

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

Solubility in Water:SLIGHT

Appearance and Odor:CLEAR WITH SLIGHT ETHER

AL ODOR

Percent Volatiles by Volume:100 %

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

Stability Indicator/Materials to Avoid:YES

STRONG ACIDS & ALKALIS, REACTIVE METALS, STRONG OXIDIZING AGENTS.

Stability Condition to Avoid:MATERIAL IS STABLE. HOWEVER, AVOID OPEN

FLAMES AND HIGH TEMPERATURES. HEAT WILL DECOMPOSE ABOVE 250F, 120C.

Hazardous Decomposition Products:HYDROCHLORIC AND HYDROFLUORIC ACIDS
AND CARBONYL HALIDES SUCH AS PHOSGENE.

===== Dis
posal Considerations =====

Waste Disposal Methods:PREVENT WASTE FROM CONTAMINATING SURROUNDING
ENVIRONMENT. DISCARD ANY PRODUCT, RESIDUE, DISPOSAL CONTAINER OR
LINER IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.

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