

MILLER-STEPHENSON CHEMICAL CO INC. -- MS-242N QUIK FREEZE -- 6850-01-333-1841

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Product Identification
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Product ID:MS-242N QUIK FREEZE

MSDS Date:11/01/1995

FSC:6850

NIIN:01-333-1841

MSDS Number: BSWBX

=== Responsible Party ===

Company Name:MILLER-STEPHENSON CHEMICAL CO INC.

Address:GEORGE WASHINGTON HIGHWAY

Box:950

City:DANBURY

State:CT

ZIP:06810

Country:US

Info Phone Num:203-743-4447

Em

ergency Phone Num:203-797-2212 OR 800-424-9300

Preparer's Name:MOURAD FAHMI

CAGE:18598

=== Contractor Identification ===

Company Name:MILLER-STEPHENSON CHEMICAL CO INC

Address:55 BACKUS AVE/GEORGE WASHINGTON HWY

Box:950

City:DANBURY

State:CT

ZIP:06810

Country:US

Phone:203-743-4447

CAGE:18598

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Composition/Information on Ingredients
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Ingred Name:1,1,1,2-TETRAFLUOROETHANE

CAS:811-97-2

Fraction by Wt: 100%

Other REC Limits:NONE RECOMMENDED

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Hazard
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s Identification =====

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.

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

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

Health Hazards Acute and Chronic:INHAL OF HIGH CONC OF VAP IS

HARMFUL,MAY CAUSE HEART IRREGULARITIES,UNCONSC,DEATH.INTENTIONAL MISUSE CAN BE FATAL.VAP REDUCES OXYGEN AVAILABLE FOR BREATHING & IS HEAVIER THAN AIR.LIQ CONTACT CAN CAUSE FROSTBITE.CMPD UNTESTED FOR SKIN/EYE IRRIT,ANIMAL SENSITIZATION.

Explanation of Carcinogenicity:PER MSDS:ANIMAL TESTING INDICATES COMPOUND DOES NOT HAVE CARCINOGENIC EFFECTS.NOT LISTED BY IARC/NTP/OSHA/ACGIH.

Effects of Overexposure:OVEREXPO BY VERY HIGH CONC INHAL MAY CAUSE TEMPORARY ALTERATION OF HEART'S ELECTRICAL ACTIVITY W/IRREGULAR PULSE,PALPITATIONS,INADEQUATE CIRCULATION.SKIN CONTACT W/LIQ MAY CAUSE FROSTBITE.

Medical Cond Aggravated by Exposure:INDIVIDUALS W/PRE-EXISTING DISEASES OF CENTRAL NERVOUS OR CARDIOVASCULAR SYSTEM MAY HAVE INCREASED SUSCEPTIBILITY OT TOXICITY OF EXCESSIVE EXPOSURES.

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

First Aid:INHAL:IMMED REMOVE TO FRESH AIR.KEEP PERSON CALM.NOT BREATH GIVE ART RES.DIFFI BREATH GIVE OXYGEN.CALL PHYSICIAN.EYE:IMMED FLUSH W/PLENTY OF WATER FOR 15MINS.CALL PHYSICIAN.SKIN:FLUSH W/WATER AFT EXCE SSIVE CONTACT.TREAT FOR FROSTBITE IF NECESSARY BY GENTLY WARMING AREA.ORAL:NOT CONSIDERED POT ROUTE OF EXPO.DR: BECAUSE OF POSSIBLE DISTURB OF CARDIAC RHYTHM,CATECHOLAMINE DRUGS(EPINEPHRINE)SHOULD(SUP)

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

Flash Point Method:TOC

Flash Point:WILL NOT BURN

Autoignition Temp:Autoignition Temp Text:>750C

Lower Limits:NOT APPLICAE

Upper Limits:NOT APPLICAE

Extinguishing Media:AS APPROPRIATE FOR COMBUSTIBLE IN AREA.

Fire Fighting Procedures:COOL CANS W/WATERSPRAY.SELF-CONTAINED BREATHING APPARATUS (SCBA) MAY BE REQUIRED IF CANS RUPTURE O

R

RELEASE UNDER FIRE CONDITIONS.

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

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

Spill Release Procedures:VENTILATE AREA-ESPECIALLY LOW PLACES WHERE
HEAVY VAPORS MIGHT COLLECT.REMOVE OPEN FLAMES.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:DON'T STORE NEAR SOURCES
OF HEAT,IN

DIRECT SUNLIGHT OR WHERE TEMPS EXCEED 120F.DON'T PUNCTURE OR DMG
CONTAINERS.ROTATE STOCK TO SHELF LIFE OF 1 YR.

Other Precautions:USE W/SUFFICIENT VENTILATION TO KEEP EMPLOYEES EXPO
BELOW RECOMMENDED LIMITS.HFC 134S SHOULD NOT BE MIXED W/AIR FOR ANY
OTHER PURPOSE ABOVE ATM PRESSURE.

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

Respiratory Protection:UNDER NORMAL CONDITIONS NO RESPIRATORY
PROTECTION IS REQUIRED WHEN USING THIS PRODUCT.

Ventilation:NORMAL VENTILATION FOR STD MANUFACTURING PROCEDURES IS
GENERALLY ADEQUATE.

Protective Gloves:LINED BUTYL GLOVES.

Eye Protection:CHEM SPLASH GOGGLES.

Other Protective Equipment:NONE SPECIFIED BY MANUFACTURER.

Work Hygienic Practices:WASH CONTAMIN CLOTHING BEF REUSE.

Supplemental Safety and Health

1ST AID:BE CONSIDERED ONLY AS LAST RESORT IN LIFE THREATENING
EMERGENCIES.

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

HCC:V2

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

Melt/

Freeze Pt:M.P/F.P Text:NP
Decomp Temp:Decomp Text:NP
Vapor Pres:96PSIG@77F
Vapor Density:3.18
Spec Gravity:1.21 @77F
pH:NP
Viscosity:NP
Evaporation Rate & Reference:NP
Solubility in Water:SLIGHT,0.15%
Appearance and Odor:CLEAR LIQUIFIED GAS, COLORLESS, SLIGHT ETHEREAL
ODOR.
Percent Volatiles by Volume:100
Corrosion Rate:NP

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

Stability Indicator/Materials to Avoid:YES
ALKALI OR ALKALINE EARTH METALS-POWDERED AL, ZN, BE, E
TC.
Stability Condition to Avoid:AVOID OPEN FLAMES & HIGH TEMPERATURES.
Hazardous Decomposition Products:CAN BE DECOMPO BY HIGH TEMP(OPN
FLAMES,GLOWING METAL SURFACES)FORMING HYDROFLUORIC ACID & POSSIBLY
CARBONYL FLUORINE.

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

Waste Disposal Methods:COMPLY WITH LOCAL, STATE AND FEDERAL
REGULATIONS.NO CERCLA CHEMS.

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