MILLER-STEPHENSON CHEMICAL -- MS-222N AERO-DUSTER -- 6850-00N052124

Product Identification

Product ID: MS-222N AERO-DUSTER
MSDS Date: 11/01/1993
FSC: 6850
NIIN: 00N052124
MSDS Number: BTZTG

Responsible Party

Company Name: MILLER-STEPHENSON CHEMICAL
Address: GEORGE WASHINGTON HWY
City: DANBURY
State: CT
ZIP: 06810
Country: US
Info Phone Num: 203-743-4447
Emergency Phone Num: 203-797-2212; 800-424-9300 (CHEMTREC)
Preparer's Name: MOURED 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

Composition/Information on Ingredients

Ingred Name: ETHANE, 1,1,1,2-TETRAFLUORO
CAS: 811-97-2
Fraction by Wt: 100%
Other REC Limits: 1000 PPM (MFR)
OSHA PEL: N/K
ACGIH TLV: N/K

Ingred Name: FIRST AID PROC: OF CARDIAC RHYTHM, CATECHOLAMINE DRUGS, SUCH AS EPINEPHRINE, SHOULD BE CONSIDERED ONLY AS A LAST (ING 3)
RTECS #: 9999999ZZ

Ingred Name: ING 2: RESORT IN LIFE THREATENING EMERGENCIES.
RTECS #: 9999999ZZ

Ingred Name: VENT: HFC 134A SHOULD NOT BE MIXED WITH AIR FOR ANY OTHER PURPOSE ABOVE ATMOSPHERIC PRESSURE.
RTECS #: 9999999ZZ

Hazards Identification

LD50 LC50 Mixture: NONE SPECIFIED BY MANUFACTURER.
Routes of Entry: Inhalation: YES  Skin: NO  Ingestion: NO
Reports of Carcinogenicity: NTP: NO  IARC: NO  OSHA: NO
Health Hazards Acute and Chronic: OVEREXP BY INHAL OF VERY HIGH CONC MAY CAUSE TEMPORARY ALTERATION OF HEART'S ELEC ACTIVITY W/IRREGULAR PULSE, PALPITATIONS/INADEQ CIRCULATION, UNCON OR DEATH. INTENTIONAL MISUSE MAY BE FATAL. VAP REDUCES OXYGEN AVAIL FOR BRTHG & IS
HVR/AIR. SKIN CNTCT W/LIQ MAY CAUSE FROSTBITE. THIS CMPD IS UNTESTED (EFTS OF OVEREXP)

Explanation of Carcinogenicity: NOT RELEVANT

Effects of Overexposure: HLTH HAZ: FOR SKIN & EYE IRRITANCY & IS UNTESTED FOR ANIMAL SENSIT. NO TOX EFTS SEEN IN ANIMALS FROM INHAL EXPOS TO CONC UP TO 81,000 PPM. LETHARGY & RAPID RESPIRATION OBSERVED AT VAP CONC OF 205,000 PPM & PULM CONGESTION, EDEMA & CNS EFTS OCCURRED AT VAP CONC OF 750,000 PPM. CARD SENSIT OCCURRED IN DOGS AT (SUPDAT)

Medical Cond Aggravated by Exposure: INDIVIDUALS WITH PREEXISTING DISEASES OF THE CENTRAL NERVOUS OR CARDIOVASCULAR SYSTEM MAY HAVE INCREASED SUSCEPTIBILITY TO THE TOXICITY OF EXCESSIVE EXPOSURES.

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

First Aid: INGEST: CALL MD IMMEDIATELY. INHAL: IMMED REMOVE TO FRESH AIR. KEEP PERSON CALM. IF NOT BRTHG GIVE ARTF RESP. IF BRTHG IS DFCLT GIVE OXYGEN. CALL MD. EYES: IMMED FLUSH W/PLENTRY OF WATER FOR AT LEAST 15 MIN. CALL MD. SKIN: FLUSH W/WATER AFTER EXCESS CNTCT. WASH CONTAM CLTHG BEFORE REUSE. TREAT FOR FROSTBITE IF NEC BY GENTLY WARMING AFFECTED AREA. NOTE TO MD: BECAUSE OF POSS DISTURB (ING 2)

Fire Fighting Measures

Flash Point Method: TOC
Flash Point: WILL NOT BURN
Extinguishing Media: AS APPROPRIATE FOR COMBUSTIBLES IN AREA.
Fire Fighting Procedures: USE NIOSH/MSHA APPROVED SCBA AND FULL PROTECTIVE EQUIPMENT. COOL CANS WITH WATER SPRAY.
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: DO NOT STORE NEAR SOURCES OF HEAT, IN DIRECT SUNLIGHT/WHERE TEMPS EXCEED 120F. DO NOT PUNCTURE/DMG CNTNRS. ROTATE STOCK TO SHELF LIFE OF ONE YEAR.
Other Precautions: NONE SPECIFIED BY MANUFACTURER.

Exposure Controls/Personal Protection

Respiratory Protection: USE NIOSH/MSHA APPROVED RESPIRATOR APPROPRIATE FOR EXPOSURE OF CONCERN. UNDER NORMAL CONDITIONS, NO RESPIRATORY PROTECTION IS REQUIRED WHEN USING THIS PRODUCT.
Ventilation: NORM VENT FOR STD MFG PROC IS GENERALLY ADEQ. USE W/SUFFICIENT VENT TO KEEP EMPLOYEE EXPOS BELOW RECOM LIMS. (ING 4)
Protective Gloves: LINED BUTYL GLOVES.
Eye Protection: ANSI APPRVD CHEM WORKER GOGGLES.
Other Protective Equipment: NONE SPECIFIED BY MANUFACTURER.
Work Hygienic Practices: NONE SPECIFIED BY MANUFACTURER.
Supplemental Safety and Health
SOL IN H*2O: 0.15% BY WT @ 77F & 14.7 PSIA. EFTS OF OVEREXP: 75,000 PPM FROM ACTION OF EXOGENOUS EPINEPHRINE. NO ADVERSE EFTS OBSERVED IN MALE & FEMALE RATS FED 300 MG/KG/DAY FOR 52 WKS. ANIMAL TESTS SHOW
NO CARCIN/MUTAGENIC EFTS. EMBRYOTOX ACTIVITY OBSERVED IN SOME ANIMAL TESTS BUT ONLY AT MATERNALLY TOX DOSE LEVELS.

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

Boiling Pt:B.P. Text:-16F,-27C
Vapor Pres:96 PSIA
Vapor Density:3.18
Spec Gravity:1.21 @ 77F
Solubility in Water:SUPDAT
Appearance 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 - POWDERED AL, ZN, BE, ETC.
Stability Condition to Avoid: AVOID OPEN FLAMES AND HIGH TEMPERATURES.
Hazardous Decomposition Products: CAN BE DECOMPOSED BY HIGH TEMPS (OPEN FLAMES, GLOWING METAL SURFS) FORMING HYDROFLUORIC ACID & POSS CARBONYL FLUORINE.

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

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

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