

MATERIAL SAFETY DATA SHEET

For R&D use only. Not for drug, household or other uses.

Click <http://www.lookchem.com/cas-306/306-83-2.html> for suppliers of this product.

Composition/Information on Ingredient

Cas:
306-83-2
Code:
M

RTECS:
KI1108000
Code:
M

Name:
2,2-DICHLORO-1,1,1-TRIFLUOROETHANE (SARA 313) 1

Other REC Limits:
N/K

OSHA PEL:
1000 PPM
Code:
M

OSHA STEL:

Code:

ACGIH TLV:
1000 PPM
Code:
M

ACGIH STEL:
N/P
Code:
1

Control Measures

Respiratory Protection:

WHERE ENVIRONMENTAL CONTROLS ARE LACKING OR IN ENCLOSED SPACES USE EITHER A SELF-CONTAINED BREATHING APPARATUS OR A NIOSH/MSHA APPROVED RESPIRATOR FOR ORGANIC VAPORS, DEPENDING ON THE AIRBORNE CONCENTRATION.

Ventilation:
LOCAL VENTILATION AT THE WORKSITE; MECHANICAL(GENERAL) VENTILATION TO MAINTAIN TLV/PEL. VAPORS ACCUMULATE IN LOW AREAS.

Protective Gloves:
WEAR APPROPRIATE IMPERVIOUS GLOVES.

Eye Protection:
WEAR SAFETY GLASSES OR COVERALL CHEMICAL SPLASH GOGGLES.

Other Protective Equipment:
Equipment APRON, PANTS AND JACKET.

Work Hygienic Practices:
NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health:
3 NOTE TO PHYSICIANS: THIS MATERIAL MAY MAKE THE HEART MORE SUSCEPTIBLE TO ARRHYTHMIAS. CATECHOLAMINES SUCH AS ADRENALINE, AND OTHER COMPOUNDS HAVING SIMILAR EFFECTS, SHOULD BE RESERVED FOR EMERGENCIES AND THEN ONLY USED WITH SPECIAL CAUTION.

Health Hazards Data

LD50/LC50/Mixture:
ORAL LD50 (RAT) IS 9000 MG/KG

Route Of Entry Inds - Inhalation:
YES

Skin:

YES

Ingestion:
NO

Carcinogenicity Inds - NTP:
NO

IARC:

NO

OSHA:

NO

Health Hazards Acute And Chronic:
INHALATION OF HIGH CONCENTRATIONS OF VAPOR IS HARMFUL, MAY CAUSE LIVER DAMAGE AND TEMPORARY NERVOUS SYSTEM DEPRESSION. INTENTIONAL MISUSE OR DELIBERATE INHALATION MAY CAUSE DEATH WITHOUT WARNING. VAPOR REDUCES OXYGEN AVAILABLE FOR BREATHING & IS HEAVIER THAN AIR. PRODUCT PRODUCES MILD EYE IRRITATION. EYE CONTACT MAY CAUSE IRRITATION.

Explanation Of Carcinogenicity:
NONE OF THE COMPONENTS PRESENT IN THIS MATERIAL AT CONCENTRATIONS EQUAL TO OR GREATER THAN 0.1% ARE LISTED BY IARC, NTP, OSHA OR ACGIH AS A CARCINOGEN.

Signs And Symptoms Of Overexposure:
EYES: TEARING, BLURRED VISION. INHALATION: ANESTHETIC EFFECT (DIZZINESS, HEADACHE, CONFUSION, INCOORDINATION, LOSS OF CONSCIOUSNESS). HIGHER EXPOSURES CAUSE ALTERATION OF THE HEART'S ELECTRICAL ACTIVITY (IRREGULAR PULSE, PALPITATION, INADEQUATE CIRCULATION).

Medical Cond Aggravated By Exposure:
PERSONS WITH PRE-EXISTING LIVER, CENTRAL NERVOUS SYSTEM OR CARDIOVASCULAR SYSTEM AILMENTS MAY BE AT INCREASED RISK FROM EXPOSURE.

First Aid:

SKIN: REMOVE CONTAMINATED CLOTHING; WASH WITH WATER. IF IRRITATION OCCURS, CALL PHYSICIAN. EYES: FLUSH WITH WATER FOR 15 MINUTES. CALL PHYSICIAN. INHALATION: REMOVE TO FRESH AIR. GIVE OXYGEN OR ARTIFICIAL RESPIRATION IF NEEDED. IF BREATHING IS DIFFICULT, CALL PHYSICIAN. INGESTION: POSES AN ASPIRATION HAZARD. DO NOT INDUCE VOMITING! IF CONSCIOUS, GIVE 2 GLASSES WATER IMMEDIATELY. CALL A PHYSICIAN.

Spill Release Procedures:

USE PROPER RESPIRATORY AND PROTECTIVE EQUIPMENT. VENTILATE AREA. DIKE SPILL. PREVENT MATERIAL FROM ENTERING SEWERS, WATERWAYS OR LOW AREAS. COLLECT ON ABSORBENT MATERIAL & TRANSFER TO STEEL DRUMS FOR RECOVERY OR DISPOSAL.

Neutralizing Agent:

NONE SPECIFIED BY MANUFACTURER.

Waste Disposal Methods:

RECOVER BY DISTILLATION OR REMOVE TO A PERMITTED WASTE DISPOSAL FACILITY. TREATMENT, STORAGE, TRANSPORTATION AND DISPOSAL MUST BE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

Handling And Storage Precautions:

2 STORE IN A CLEAN, DRY PLACE. DO NOT HEAT ABOVE 52C/126F. DO NOT ALLOW PRODUCT TO CONTACT OPEN FLAME OR ELECTRICAL HEATING ELEMENTS BECAUSE DANGEROUS DECOMPOSITION PRODUCTS FORM. PROVIDE ADEQUATE VENTILATION FOR STORAGE, HANDLING AND USE; ESPECIALLY FOR ENCLOSED OR LOW SPACES.

Other Precautions:

AVOID SKIN AND EYE CONTACT. AVOID BREATHING HIGH CONCENTRATIONS OF VAPOR.

Fire and Explosion Hazard Information

Flash Point Method:

N/P

Flash Point:

N/A

Flash Point Text:

NONE

Autoignition Temp:

N/P

Lower Limits:

N/A

Upper Limits:

N/A

Extinguishing Media:

USE MEDIA APPROPRIATE FOR SURROUNDING MATERIAL.

Fire Fighting Procedures:

COOL TANK/CONTAINER WITH WATER SPRAY. SELF-CONTAINED BREATHING APPARATUS (SCBA) IS REQUIRED IF DRUMS RUPURE AND CONTENTS ARE SPILLED UNDER FIRE CONDITIONS. WATER RUN-OFF SHOULD BE CONTAINED AND NEUTRALIZED PRIOR TO RELEASE.

Unusual Fire/Explosion Hazard:
DRUMS MAY RUPURE UNDER FIRE CONDITIONS. DECOMPOSITION MAY OCCUR.

Physical/Chemical Properties

HCC:

N1

NRC/State IIC No:

N/R

Net Prop WT For Ammo:

N/P

Boiling Point:

=27.2C, 81.1F

B.P. Text:

N/A

Melt/Freeze Pt:

N/P

M.P./F.P. Text:

N/P

Decomp Temp:

N/P

Decomp Text:

N/P

Vapor Pres:

13.93PA @ 77F

13.93PA @ 77F

Vapor Density:

5.3

Volatile Org Content %:

N/P

Spec Gravity:

N/P

VOC Pounds/Gallon:

N/A

pH: NEUTRAL

VOC Grams/liter:

N/A

Viscosity:

N/K

Evaporation Rate & Reference:

Solubility in Water:

SLIGHT; 0.39 VT% @ 77F

Appearance and Odor:
LIQUID, CLEAR; COLORLESS; SLIGHT ETHER-LIKE ODOR.

Percent Volatiles by Volume:

100 %

Corrosion Rate:

N/P

Reactivity Data

Stability Indicator:

YES

Stability Open Flames And High Temperatures:

AVOID OPEN FLAMES AND HIGH TEMPERATURES.

Incompatibility With Alkalies Or Alkaline Earth Metals: POWDERED AL, BE, ZN ETC.

Hazardous Decomposition Products: THIS MATERIAL CAN BE DECOMPOSED BY HIGH TEMPERATURES, OPEN FLAMES, GLOWING METAL SURFACES, ETC.) FORMING HYDROCHLORIC AND HYDROFLUORIC ACIDS, AND POSSIBLY CARBONYL HALIDES.

Hazardous Polymerization Indicator:

NO

Conditions To Avoid Polymerization:

WILL NOT OCCUR.

Toxicological Information

Information: N/P

MSDS Transport Information

Information: N/P

Regulatory Information

Sara Title III Information: N/P

Federal Regulatory Information: N/P

State Regulatory Information: N/P

Other Information

Other Information: N/P

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