



TRICHLOROETHANE 111 DEGREASE COLD/VAPOR

MSDS Number

BHCFZ

National Stock Number

6810-00-476-5613

Product Name

TRICHLOROETHANE 111 DEGREASE COLD/VAPOR

Manufacturer

ASHLAND CHEMICAL INC SUBS OF ASHLAND OIL INC

Product Identification

Product ID:TRICHLOROETHANE 111 DEGREASE COLD/VAPOR

MSDS Date:07/14/1989

FSC:6810

NIIN:00-476-5613

MSDS Number: BHCFZ

Responsible Party

ASHLAND CHEMICAL, INC. SUBS. OF ASHLAND OIL, INC.

COLUMBUS , OH 43216

US

Emergency Phone: 800-274-5263

Info Phone: 614-889-3333

Cage: 5A188

Contractor

ASHLAND CHEMICAL CO

DUBLIN, OH 43017

US

614-889-4505

Cage: 5A188

Ingredients

METHYL CHLOROFORM (1,1,1-TRICHLOROETHANE) (SARA III)

CAS: 71-55-6

RTECS: KJ2975000

Fraction By Weight: >95%

OSHA PEL350 PPM/450 STEL

ACGIH TLV: 350 PPM/450STEL;9192

EPA Report Quantity: 1000 LBS

DOT Report Quantity: 1000 LBS

1,4-DIOXANE (DIETHYLENE DIOXIDE) (SARA III)

CAS: 123-91-1

RTECS: JG8225000

Fraction By Weight: 2.5%

OSHA PELS, 100 PPM



ACGIH TLV: S, 25 PPM; 9293

EPA Report Quantity: 100 LBS

DOT Report Quantity: 100 LBS

Hazards

LD50 LC50 Mixture:ORAL LD50 (RAT) = 10300 MG/KG
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO
Health Hazards Acute and Chronic:ACUTE: MAY CAUSE EYE & SKIN IRRITATION. MAY CAUSE RESPIRATORY TRACT IRRITATION. CENTRAL NERVOUS SYSTEM DEPRESSANT. LOSS OF CONSCIOUSNESS AND EVEN DEATH CAN OCCUR AT HIGH LEVELS OF EXPOSURE.
Explanation of Carcinogenicity:1,4-DIOXANE IS LISTED AS AN ANIMAL CARCINOGEN BY NTP AND IARC.
Effects of Overexposure:INCOORDINATION AND IMPAIRED JUDGMENT MAY OCCUR AT VAPOR EXPOSURES FROM 500-1000 PPM. DIZZINESS, DROWSINESS, AND GENERAL ANESTHETIC EFFECTS MAY OCCUR IN RANGES OF 1000 PPM AND HIGHER.
Medical Cond Aggravated by Exposure:INCREASED SENSITIVITY TO ADRENALIN MAY BE CAUSED BY OVER EXPOSURE.

First Aid

First Aid:INHALATION: REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE CPR. IF BREATHING IS DIFFICULT, GIVE OXYGEN. CALL A PHYSICIAN. EYE: FLUSH IMMEDIATELY WITH LARGE AMOUNTS OF WATER FOR 15 MINUTES. GET MEDICAL AT TENTION. SKIN: REMOVE CONTAMINATED CLOTHING. WASH WITH SOAP AND WATER PROMPTLY. INGESTION: DO NOT INDUCE VOMITING. GIVE MILK OR USP MINERAL OIL. GET IMMEDIATE MEDICAL ATTENTION.

Fire Fighting

Lower Limits:7.5%
Upper Limits:15.0%
Extinguishing Media:WATER FOG
Fire Fighting Procedures:WATER MAY BE USED TO KEEP FIRE-EXPOSED CONTAINERS COOL UNTIL FIRE IS OUT. WEAR SCBA WITH A FULL FACEPIECE OPERATED IN THE POSITIVE PRESSURE DEMAND MODE.
Unusual Fire/Explosion Hazard:NEFER USE WELDING OR CUTTING TORCH ON OR NEAR DRUM BECAUSE PRODUCT CAN IGNITE EXPLOSIVELY(EVEN JUST RESIDUE)

Accidental Release

Spill Release Procedures:SMALL SPILL: WIPE UP WITH RAGS OR TOWELS. LARGE SPILLS: WEAR NIOSH APPROVED RESPIRATOR. VENTILATE AREA. DIKE TO RETAIN FLUID. PUMP UP FREE LIQUID. RESIDUE WILL EVAPORATE QUICKLY. DO NOT FLUSH TO SEWER OR WATERWAY.
Neutralizing Agent:NONE

Handling

Handling and Storage Precautions:STORE IN A COOL, DRY, WELL-VENTILATED LOCATION, AWAY FROM ANY AREA WHERE THE FIRE HAZARD MAY BE ACUTE. KEEP CONTAINERS CLOSED WHEN NOT IN USE.
Other Precautions:DO NOT USE WITH ALUMINUM. READ AND FOLLOW DIRECTIONS ON LABEL. DO NOT REUSE CONTAINERS.

Exposure Controls

Respiratory Protection:IN HIGH VAPOR AREA, USE NIOSH/MSHA APPROVED RESPIRATOR WITH ORGANIC VAPOR CARTRIDGE. USE SELF-CONTAINED BREATHING APPARATUS IF VAPOR LEVELS EXCEED 1000 PPM.
Ventilation:LOCAL EXHAUST RECOMMENDED TO CONTROL VAPORS BELOW 50% OF TLV.
Protective Gloves:NEOPRENE, PVA GLOVES RECOMMENDED.
Eye Protection:USE CHEMICAL SAFETY GOGGLES.
Other Protective Equipment:APRON AND WORK CLOTHING TO MINIMIZE EXPOSURE. EYE WASH STATION & SAFETY SHOWER RECOMMENDED.
Work Hygienic Practices:WASH THOROUGHLY AFTER USE AND BEFORE EATING, SMOKING OR USING TOILET FACILITIES. DO NOT BREATH VAPORS OR MIST.



Supplemental Safety and Health
TARGET ORGANS ARE SKIN, CNS, CVS, AND EYES

Chemical Properties

HCC:T4
Boiling Pt:B.P. Text:161F,72C
Vapor Pres:100
Vapor Density:4.5
Spec Gravity:1.3-1.324
Evaporation Rate & Reference:2.6 (ETHLY ETHER=1)
Appearance and Odor:HOMOGENEOUS SOLUTION THAT IS CLEAR. APHA COLOR 15
MAX.
Percent Volatiles by Volume:100

Stability

Stability Indicator/Materials to Avoid:YES
WATER, REACTIVE METALS SUCH AS ALUMINU;M AND MAGNESIUM.
Stability Condition to Avoid:OPEN FLAMES, WELDING ARCS, RESISTANCE
HEATERS, ETC., WHICH CAN RESULT IN THERMAL DECOMPOSITION.
Hazardous Decomposition Products:WHEN INVOLVED IN FIRE,
1,1,1-TRICHLOROETHANE EMITS HIGHLY TOXIC AND IRRITATING HYDROGEN
CHLORIDE AND PHOSGENE FUMES.

Disposal

Waste Disposal Methods:DISOPSE OF I/A/W FEDERAL, STATE & LOCAL
REGULATIONS

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