ASHLAND CHEMICAL, INC. SUBS. OF ASHLAND OIL, INC. -- TRICHLOROETHANE 111 DEGREASE COLD/VAPOR -- 6810-00-664-0388

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

Product ID:TRICHLOROETHANE 111 DEGREASE COLD/VAPOR
MSDS Date:07/14/1989
FSC:6810
NIIN:00-664-0388
MSDS Number: BQNQT
=== Responsible Party ===
Company Name:ASHLAND CHEMICAL, INC. SUBS. OF ASHLAND OIL, INC.
Box:2219
City:COLUMBUS
State:OH
ZIP:43216
Country:US
Info Phone Num:614-790-3333
Emergency Phone Num:800-274-5
263
CAGE:5A188
=== Contractor Identification ===
Company Name:ASHLAND CHEMICAL CO
Address:5200 PAUL BLAZEL MEMORIAL PARKWAY
Box:City:DUBLIN
State:OH
ZIP:43017
Country:US
Phone:614-889-4505
CAGE:5A188

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

Ingred Name:METHYL CHLOROFORM (1,1,1-TRICHLOROEHANE) (SARA III)
CAS:71-55-6
RTECS #:KJ2975000
Fraction by Wt: >95%
OSHA PEL:350 PPM/450 STEL
ACGIH TLV:350 PPM/450STEL;9293
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS
Ozone Depletin

g Chemical:1

Ingred Name:1,4-DIOXANE (DIETHYLENE DIOXIDE) (SARA III)
CAS:123-91-1
RTECS #:JG8225000
Fraction by Wt: 2.5%
OSHA PEL:S, 100 PPM
ACGIH TLV:S, 25 PPM; 9293
EPA Rpt Qty:100 LBS
DOT Rpt Qty:100 LBS

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

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 & SK
IN
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 ANESTETHIC EFFECTS MAY OCCUR IN RANGES OF 1000 PPM AND HIGHER.
Medica
l Cond Aggravated by Exposure:INCREASED SENSITIVITY TO ADRENALIN MAY BE CAUSED BY OVER EXPOSURE.

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

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 IND
UCE VOMITING. GIVE
MILK OR USP MINERAL OIL. GET IMMEDIATE MEDICAL ATTENTION.

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

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 PR

ODUCT CAN IGNITE EXPLOSIVELY(EVEN JUST RESIDUE)

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

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 and Storage ==========

Handling and Storage Precautions:STO
RE 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/Personal Protection ==========

Respiratory Protection:IN HIGH VAPOR AREA, USE NIOSH/MSHA APPROVED RESPIRATOR WITH ORGANIC VAPOR CARTRIDGE. USE SELF-CONTAINED BREATHING APPARATUS IF VAPOR LEVELS E
XCEED 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

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

HCC:T4
Boiling Pt:B.P. Text:161F,72C
Vapor Pres:100 MM HG
Vapor Density:4.5(AIR=1)
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 and Reactivity Data ==========

Stability Indicator/Materials to Avoid:YES
WATER, REACTIVE META

LS 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 Considerations ==========

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

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