

ASHLAND CHEMICAL CO. IC&S DIVISION -- TRICHTHLORETHAN 111 DEGRS COLD/V --
6810-00-551-1487

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

Product ID:TRICHTHLORETHAN 111 DEGRS COLD/V
MSDS Date:12/22/1988
FSC:6810
NIIN:00-551-1487
MSDS Number: BFDYW
=== Responsible Party ===
Company Name:ASHLAND CHEMICAL CO. IC&S DIVISION
Address:3101 WOOD DRIVE
City:GARLAND
State:TX
ZIP:75040
Info Phone Num:606-324-1133
Emergency
Phone Num:606-324-1133
CAGE:34897

=== Contractor Identification ===
Company Name:ASHLAND CHEMICAL CO
Box:2219
City:COLUMBUS
State:OH
ZIP:43216-2219
Country:US
Phone:614-790-3333/800-274-5263
CAGE:34897

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

Ingred Name:METHYL CHLOROFORM (1,1,1-TRICHTHLORETHANE) (SARA III)
CAS:71-55-6
RTECS #:KJ2975000
Fraction by Wt: 100%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:350 PPM
ACGIH TLV:350 PPM/450STEL;9394
EPA Rpt Qty:1000 LBS
DOT Rpt

Qty:1000 LBS
Ozone Depleting Chemical:1

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

LD50 LC50 Mixture:ORAL LD50 (RAT) = 10300 MG/KG
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:ACUTE: EYES- SEVERE IRRITATION,
REDNESS, TEARING, BLURRED VISION. SKIN- MODERATE IRRITATION,
DEFATTING, DERMATITIS. INHALE- NASAL AND RESPIRATORY IRRITATION,
CNS EFFECTS INCLUDING DIZZIN
ESS, WEAKNESS, FATIGUE. INGEST-
NAUSEA, VOMITING,DIARRHEA. CHRONIC: CARDIAC, LIVER, KIDNEY
ABNORMALITIES.
Explanation of Carcinogenicity:NOT LISTED AS A CARCINOGEN BY NTP, IARC
OR OSHA
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 CA
USED BY OVER EXPOSURE.

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===== 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 INDUCE VOMITING. GIVE
MILK OR USP MINERAL OIL. GET IMMEDIATE MEDICAL ATTENTIO
N.

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

Lower Limits:7.5
Extinguishing Media:WATER FOG
Fire Fighting Procedures:FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA &
FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE. USE WATER
SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE.
Unusual Fire/Explosion Hazard:NEVER USE WELDING OR CUTTING TORCH ON OR
NEAR DRUM (EVEN EMPTY) BECAUSE PRODUCT, EVEN RESIDUE, CAN IGNITE
EXPLOSIVELY.

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===== Acciden

tal 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: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/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 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 BREATHE 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:162F,72C

Vapor Pres:100

Vapor Density:4.5

Spec Gravity:1.3

Evaporation Rate & Reference:2.6 (ETHYL ETHER=1)

Solubility in Water:0.07G/100G

Appearance and Odor:CLEAR, APHA COLOR 15 MAX, LIQUID, HOMOGENEOUS SOLUTION

Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES

WATER, REACTIVE METALS SUCH AS ALUMINUM AND MAGNESIUM.

Stability Condition to Avoid:HI

GH TEMPERATURES, SPARKS, AND OPEN FLAMES

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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