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## ASHLAND CHEMICAL CO. -- TRICHLORETHAN 111 DEGRS COLD/V -- 6810-00-551-1487

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

Product ID:TRICHLORETHAN 111 DEGRS COLD/V

MSDS Date:07/14/1989

FSC:6810

NIIN:00-551-1487

MSDS Number: BHFQV === Responsible Party ===

Company Name: ASHLAND CHEMICAL CO.

Address: INDUSTRIAL CHEMICALS AND SOLVENTS

Box:2219

City:COLUMBUS

State:OH ZIP:43216 Country:US

Info Phone Num:614-790-333

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Emergency Phone Num:606-324-1133

**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-TRICHLOROETHANE) (SARA III)

CAS:71-55-6

RTECS #:KJ2975000 Fraction by Wt: >95%

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

Ingred Name:1,4-DIOXANE (DIETHYLENE DIOXIDE) (SARA III)

CAS:123-91-1

RTECS #:JG8225000 Fraction by Wt: 2.5%

Other REC Limits: NONE SPECIFIED

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:LD50 (ORAL RAT) IS >10,000 MG/KG Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenic

ity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:ACUTE-EYES:SLIGHT IRRITATION & INJURY.SKIN:IRRITATION.INHALATION:RESPIRATORY IRRITATION,CNS EFFECTS & POSSIBLE DEATH.INGESTION:ORAL TOXICITY IS LOW.ASPIRATION OF MATERIAL INTO THE LUNGS CAN CAUSE CHEM ICAL PNEUMONITIS WHICH CAN BE FATAL.CHRONIC-OVEREXPOSURE CAUSES KIDNEY DAMAGE, CARDIAC & LIVER ABNORMALITIES.SKIN:FLAKES

Explanation of Carcinogenicity:THIS PRODUCT CONTAINS PROPRIETARY INHIBITOR (DIETHYLENE ETHE

R)WHICH IS LISTED BY IARC, NTP AS ANIMAL CARCINOGEN.

Effects of Overexposure:EYES:LIQUID MAY CAUSE PAIN, VAPOR MAY CAUSE IRRITATION.SKIN:IRRITATION.INHALATION:MAY CAUSE DIZZINESS,WEAKNESS,FATIGUE,NAUSEA,HEADACHE & UNCONSCIOUSNESS & DEATH.INGESTION:MAY BE ASPIRATED INTO THE LUN GS AND RESULTING IN INJURY TO OTHER BODYSYSTEMS.

Medical Cond Aggravated by Exposure:PERSONS WITH A HISTORY OF AILMENTS OR WITH A PRE-EXISTING DISEASE INVOLVING THE EYES, SKIN, OR RESPIRATORY TR

ACT MAY BE AT INCREASED RISK FROM EXPOSURE.

First Aid:INHALATION:REMOVE TO FRESH AIR. RESUSCITATE IF NOT BREATHING. GET MEDICAL ATTENTION. EYES:IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR 15 MINUTES HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION. SKIN:REMOVE CONTAMINATED CLOTHING. WASH WITH SOAP AND WATER. IF IRRITATION PERSISTS, GET MEDICAL ADVICE. INGESTION:DO NOT INDUCE VOMITING. GIVE NOTHING BY MOUTH IF



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

Lower Limits:7.5 Upper Limits:15.0

Extinguishing Media: USE WATER FOG

Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS WITH A FULL FACEPIECE OPERATED IN THE POSITIVE PRESSURE DEMAND MODE WHEN FIGHTING FIRES.

Unusual Fire/Explosion Hazard:NEVER USE WELDING OR CUTTING TORCH ON OR NEAR DRUM (EVEN EMPTY) BECAUSE PRODUCT CAN IGNITE EXPLOSIVELY.VAPORS

ARE HEAVIER THAN AIR.AVOID SPARKS,EXCE.

HEAT, FLAME

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

Spill Release Procedures:PERSONS NOT WEARING PROTECTIVE EQUIPMENT SHOULD BE EXCLUDED FROM AREA OF SPILL.PUMP LIQUID TO SALVAGE TANK.REMAINING LIQUID MAY BE TAKEN UP ON SAND, CLAY,FLOOR ABSORBENT AND SHOVELED INTO CONTAINERS.I F IT RUN-OFF TO SEWERS, NOTIFY PROPER AUTORITIES.

Neutralizing Agent: NOT APPLICABLE.

Handling and Storage Precautions:ALUMINUM EQUIPMENT SHOULD NOT BE USED FOR STORAGE/TRANSFER(PUMPS,MIXERS,FITTINGS,STORAGE TANKS,ETC).CONTACT WITH ALUMINUM PARTS->VIOLENT REACTIONS.

Other Precautions:AVOID PROLONGED CONTACT WITH PLASTIC & RUBBER I.E. EQUIPMENT,PROTECTIVE CLOTHING, AND CONTAINERS.THIS PRODUCT SHOULD NOT BE PACKED IN ALUMINUM AEROSOL CAN.

===== Exposure Controls/Personal Protection ========

Respiratory Protection: USE NIOSH/MSHA APPROVED RESPIRATOR FOR ORGANIC

VAPORS OR AS REQUIRED IF ABOVE PEL/TLV OR SCBA IN AN ENCLOSED AREA.

Ventilation:LOCAL/GENERAL TO MAINTAIN PEL/TLV.

Protective Gloves: POLYVINYL ALCOHOL, POLYETHYLENE

Eye Protection: SAFETY GOGGLES WITH OPTIONAL FACE SHIELD

Other Protective Equipment:EYE WASH STATION AND SAFETY SHOWER, WORK CLOTHING AND APRON AS REQUIRED.

Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. DO NOT WEAR CONTAMINATED CLOTHING OR FO

OTWEAR.
Supplemental Safety and Health
NOTE TO PHYSICIAN:DUE TO RAPID ABSORPTION THROUGH THE LUNGS IF
ASPIRATED WHILE VOMITING, THE DANGER MUST BE WEIGHED AGAINST
TOXICITY OF 1,1,1-TRICHLOROETHANE.ENDOTRACHEAL/ESOPHAGEAL CONTROL
MAY BE SUGG ESTED.DO NOT ADMINISTER
SYMPATHOMIMETICDRUGS.EPINEPHRINE OR EPHEDRINE MAY ADVERSELY AFFECT
THE HEART WITH FATAL RESULTS
========= Physical/Chemical Properties ===========

HCC:T4

Boiling Pt:B.P. Text:162F,72C

Vapor Pres:1 00 MMHG

Vapor Density:4.5 Spec Gravity:1.3-1.324

Evaporation Rate & Evaporation R

Solubility in Water: NONE NOTED

Appearance and Odor: CLEAR LIQUID, APHA COLOR 15 MAX

Percent Volatiles by Volume:100.0

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

Stability Indicator/Materials to Avoid:YES STRONG OXIDIZING AGENTS,WATER,ALUMINUM,MAGNESIUM Stability Condition to Avoid:HIGH TEMPERATURES, SPARKS, AND OPEN FLAMES Hazardous Decomposition Products:CARBON MONOXIDE , CARBON

DIOXIDE, HCL, PHOSGENE AND OTHER UNIDENTIFIED COMPONENTS.

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

Waste Disposal Methods:CONSULT LOCAL AUTHORITIES.DISPOSAL MUST BE MADE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS.

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