

# **1,1,1-TRICHLOROETHANE**

## **MSDS Number**

BKJWW

## **National Stock Number**

6810-01-322-5197

## **Product Name**

1,1,1-TRICHLOROETHANE

## **Manufacturer**

EASTMAN KODAK COMPANY

## **Product Identification**

Product ID: 1,1,1-TRICHLOROETHANE

MSDS Date: 05/29/1991

FSC: 6810

NIIN: 01-322-5197

MSDS Number: BKJWW

## **Responsible Party**

EASTMAN KODAK COMPANY

343 STATE STREET

ROCHESTER, NY 14650

US

Emergency Phone: 716-722-5151

Info Phone: 716-722-5151

Cage: 19139

## **Contractor**

EASTMAN KODAK CO GOVERNMENT MARKETS CONTRACTS

ROCHESTER, NY 14650-1115

US

716-722-5151/(800) 242-2424

Cage: 19139

## **Ingredients**

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

CAS: 71-55-6

RTECS: KJ2975000

Fraction By Weight: 96%

OSHA PEL350 PPM/450 STEL

ACGIH TLV: 350 PPM/450 STEL; 9192

EPA Report Quantity: 1000 LBS

DOT Report Quantity: 1000 LBS

OTHER COMPONENTS (TYPE NOT SPECIFIED)

Fraction By Weight: 3%

SEC-BUTYL ALCOHOL (SARA III)

CAS: 78-92-2

RTECS: EO1750000

Fraction By Weight: 0.3%

OSHA PEL150 PPM

ACGIH TLV: 100 PPM; 9293

## Hazards

LD50 LC50 Mixture:ORAL LD50 (RAT) = 11.2-12.3 G/KG

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:NO IARC:NO 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. EXCESS EX POSURE CAN LEAD TO BLOOD PRESSURE DEPRESSION, CARDIAC SENSITIZATION, AND VENTRICULAR ARRHYTHMIA. POSSIBLE LIVER EFFECTS.

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. MAY CAUSE EYE CON JUNCTIVITIS.

Medical Cond Aggravated by Exposure:INCREASED SENSITIVITY TO ADRENALINE 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 VICTIM A GLASS OF WATER. GET IMMEDIATE MEDICAL ATTENTION. AVOID ASPIRATION.

## Fire Fighting

Flash Point:NONE

Lower Limits:6.7

Upper Limits:17.2

Extinguishing Media:USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY

CHEMICAL AS APPROPRIATE FOR SURROUNDINGS. (FLAMM. LIMITS AT 212F)

Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS. EVACUATE AREA. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY.

Unusual Fire/Explosion Hazard:COMBUSTION OR HEAT OF FIRE MAY PRODUCE HAZARDOUS DECOMPOSITION PRODUCTS AND VAPORS.

## 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. BE SURE THAT NO ALUMINUM CONTAINERS, AEROSOLS, FITTINGS, ETC. ARE USED WITH THIS MATERIAL. AVOID BREATHING VAPOR. PRACTICE GOOD PERSONAL HYGIENE. 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. WEAR LONG-SLEEVED SHIRTS.

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. CONSIDER RUBBER BOOTS AS ADDITIONAL PROTECTION FOR LONG TERM WORK WITH THIS MATERIAL. DO NOT CUT, GRIND, WELD, OR DRILL ON OR NEAR THIS MATERIAL. \*\*NOTE TO PHYSICIAN: DO NOT ADMINISTER EPINEPHRINE OR SIMILAR DRUGS TO AN OVEREXPOSED PERSON (PRODUCES ARRHYTHMIAS)\*\*

## Chemical Properties

HCC:T4

Boiling Pt:B.P. Text:160F,71C

Vapor Pres:100MM @20C

Spec Gravity:1.34

Solubility in Water:NEGLIGIBLE

Appearance and Odor:COLORLESS LIQUID; CHARACTERISTIC ODOR

Percent Volatiles by Volume:100

## Stability

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS, ALUMINUM, OTHER REACTIVE METALS.

Stability Condition to Avoid:HIGH HEAT, OPEN FLAMES AND OTHER SOURCES OF IGNITION

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:DISPOSE OF I/A/W FEDERAL, STATE & LOCAL REGULATIONS. UNUSED MATERIAL WILL BE A LAND-BANNED HAZARDOUS WASTE.

Disclaimer (provided with this information by the compiling agencies):

This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.