

# **1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE**

## **MSDS Number**

BGSPB

## **National Stock Number**

6850-00-033-8851

## **Product Name**

1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE

## **Manufacturer**

MALLINCKRODT INC SCIENCE PRODUCTS DIV

## **Product Identification**

Product ID:1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE

MSDS Date:10/18/1985

FSC:6850

NIIN:00-033-8851

MSDS Number: BGSPB

## **Responsible Party**

MALLINCKRODT,INC.,SCIENCE PRODUCTS DIVISION

PARIS BYPASS

PARIS , KY 40361

Emergency Phone: 314-982-5000

Info Phone: 314-982-5000

Cage: DO880

## **Contractor**

MALLINCKRODT,INC.,SCIENCE PRODUCTS DIV.

BOX M

PARIS, KY 43061

US

908-859-2151

Cage: DO880

## **Ingredients**

1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113) (SARA

CAS: 76-13-1

RTECS: KJ4000000

Fraction By Weight: >99%

OSHA PEL1000PPM/1250STEL

ACGIH TLV: 1000PPM/1250STEL9192

## **Hazards**

LD50 LC50 Mixture:LD50 ORAL RAT=43GM/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:SEE SIGNS & SYMPTOMS OF OVEREXPOSURE. CHRONIC:REPEATED OR PROLONGED SKIN CONTACT MAY HAVE A DEFATTING ACTION AND PRODUCE DERMATITIS.

Effects of Overexposure:EYES:IRRITATION,EYE DAMAGE;SKIN:IRRITATION,SKIN DAMAGE DUE TO DEFATTING;INHALATION:ANESTHETIC,ASPHYXIAN,INTERFERES WITH PSYCHOLOGICAL & PSYCHOMOTOR FUNCTIONS EXPRESSED AS EXCITEMENT

& INCOORDINATION, POSSIBLE CARDIAC ARRHYTHMIAS;INGESTION:SYMPTOMS MAY BE SIMILAR TO INHALATION.

Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN OR EYE DISORDERS OR IMPAIRED RESPIRATORY FUNCTIONS.

## First Aid

First Aid:EYES:IMMEDIATELY FLUSH WITH PLENTY OF WATER.SEE DOCTOR;SKIN:REMOVE CONTAMINATED CLOTHING.WASH WITH SOAP & WATER.IF IRRITATION PERSISTS,SEE DOCTOR;INHALATION:REMOVE.SEE DOCTOR;INGESTION:GIVE 2 GLASSES OF WATER OR MILK.INDUCE VOMIT.SEE DOCTOR IMMEDIATELY.NOTHING BY MOUTH IF UNCONSCIOUS.

## Fire Fighting

Flash Point:NONE

Extinguishing Media:APPROPRIATE FOR SURROUNDING FIRE

Fire Fighting Procedures:NIOSH-APPROVED SCBA WITH FULL FACEPIECE & FULL PROTECTIVE CLOTHING.

Unusual Fire/Explosion Hazard:EMITS SUFFOCATING & TOXIC FUMES

## Accidental Release

Spill Release Procedures:VENTILATE.EVACUATE PERSONNEL.WEAR RESPIRATORY PROTECTION PROTECTIVE & PROTECTIVE CLOTHING.REMOVE IGNITION SOURCES.CONTAIN SPILL.ABSORB IN INERT MATERIAL AND SHOVEL INTO APPROPRIATE DISPOSAL CONTAINER

## Handling

Handling and Storage Precautions:KEEP IN A TIGHTLY CLOSED CONTAINER.STORE IN COOL,DRY,VENTILATED AREA AWAY FROM HEAT & IGNITION SOURCES.PROTECT AGAINST PHYSICAL DAMAGE

Other Precautions:ISOLATE FROM INCOMPATIBLE MATERIALS.

## Exposure Controls

Respiratory Protection:FULL FACEPIECE CHEMICAL CARTRIDGE RESPIRATOR FOR UP TO 100 TIMES TLV. ALTERNATEVELY,SUPPLIED AIR FULL FACEPIECE RESPIRATOR OR AIRLINE HOOD.

Ventilation:LOCAL EXHAUST PREFERRED.

Protective Gloves:NEOPRENE

Eye Protection:GOGGLES (DO NOT WEAR CONTACT LENSES).

Other Protective Equipment:WORK CLOTH COVERING ARMS & LEGS. EYE WASH STATION & SAFETY SHOWER.

Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING. REMOVE LAUNDER CONTAMINATED CLOTHING.

Supplemental Safety and Health

## Chemical Properties

HCC:N1

Boiling Pt:B.P. Text:117F(47C)

Melt/Freeze Pt:M.P/F.P Text:-31F(-35C)

Vapor Pres:334

Vapor Density:6.5

Spec Gravity:1.57

Evaporation Rate & Reference:0.3(CARBON TETRACHLOR=1)

Appearance and Odor:CLEAR,COLORLESS LIQUID,SLIGHT ETHEREAL ODOR.

## Stability

Stability Indicator/Materials to Avoid:YES

ALKALI OR ALKALINE EARTH METALS,POWDERED

ALUMINUM,ZINC,BERYLLIUM,MAGNESIUM.

Stability Condition to Avoid:HEAT,OPEN FLAMES

Hazardous Decomposition Products:TOXIC GASES & VAPORS SUCH AS HALOGEN

ACIDS,HALOGENS & CARBONYL ALKALIES.

## Disposal

Waste Disposal Methods:DISPOSE IN A RCRA APPROVED FACILITY.DO NOT FLUSH TO SEWER.COMPLY WITH ALL APPLICABLE FEDERAL,STATE &LOCAL REGULATIONS.

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.