
C5528, FORMULA 111 (LIQUID)

MSDS Number

BPKBF

National Stock Number

6850-00N031882

Product Name

C5528, FORMULA 111 (LIQUID)

Manufacturer

CHEMTRONICS INC

Product Identification

Product ID:C5528, FORMULA 111 (LIQUID)

MSDS Date:01/01/1991

FSC:6850

NIIN:00N031882

MSDS Number: BPKBF

Responsible Party

CHEMTRONICS INC

8125 COBB CENTER DR

KENNESAW , GA 30144

US

Emergency Phone: 404-424-4888;800-424-9300(CHEMTREC)

Info Phone: 404-424-4888

Preparer: M. WATKINS, Q.C. MGR

Cage: 2M589

Contractor

CHEMTRONICS INC (CANCELLED USE 21267)

HAUPPAUGE, NY 11760

US

770-424-4888/800-645-5244

Cage: 2M589

Ingredients

ETHANE, 1,1,1-TRICHLORO-;(1,1,1-TRICHLOROETHANE).

CAS: 71-55-6

RTECS: KJ2975000

Fraction By Weight: 100%

OSHA PEL350 PPM;450 STEL

ACGIH TLV: 350 PPM;450 STEL

EPA Report Quantity: 1000 LBS

DOT Report Quantity: 1000 LBS

OR REDDENING MAY OCCUR DUE TO DEFAT. CHLOROCARBON

RTECS: 9999999ZZ

EPINEPHRINE IN LAB ANIMALS & COULD HAVE SIMILAR EFT

RTECS: 9999999ZZ

CONTRA INDICATED EXCEPT FOR LIFE SUSTAINING USES IN

RTECS: 9999999ZZ

RTECS: 9999999ZZ

FLUSH WITH WATER. IF IRRITATION

RTECS: 9999999ZZ

RISK OF ELICITING CARDIAC DYSRHYTHMIAS,

RTECS: 9999999ZZ

LAST RESORT IN LIFE THREATENING EMERGENCIES.

RTECS: 9999999ZZ

Hazards

LD50 LC50 Mixture:LD50:(ORAL RAT) 10.3 G/KG.

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:INHAL:VAP IS HEAVIER THAN AIR & CAN CAUSE SUFFOCATION BY REDUCING O2 LEVEL AVAIL FOR BRTHG. EYE:CNTCT WILL CAUSE EXTREME IRRIT. INGEST;MAY RSLT IN IRRIT OF MOUTH/GI TRACT. VOMIT & SUBSEQUENT ASPIR INT O LUNGS MAY LEAD TO CHEM PNEUMONIA & PULM EDEMA WHICH IS A POTNTLY FATAL CNDTN. SKIN:RPTD LIQ CNTCT (EFTS OF OVEREXP)

Explanation of Carcinogenicity:NOT RELEVANT.

Effects of Overexposure:HLTH HAZ:CAN CAUSE DEFATTING OF SKIN. IN SCREENING STUDIES W/EXPERIMENTAL ANIMALS, EXPOS AT APPROX 5,000 PPM & ABOVE, FOLLOWED BY LRG IV EPINEPHRINE CHALLENGE, HAS INDUCED SERIOUS CARDIAC IRREGULARITI ES. SIGNS/SYMP:INHAL:HIGH CONCENTRATIONS OF VAP CAN CAUSE LIGHT-HEADEDNESS, GIDDINESS, SHORTNESS OF BREATH, (SUPP DATA)

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

First Aid

First Aid:INHAL:MOVE TO FRESH AIR & CALL MD. IF NOT BRTHG, GIVE ARTF RESP, PREF MOUTH TO MOUTH. IF BRTHG DFCLT, GIVE O2. DO NOT GIVE EPINEPHRINE OR SIMILAR DRUGS. EYE:IMMED FLUSH W/WATER FOR AT LEAST 15 MINS. G ET MD. INGEST:IF CONSCIOUS, GIVE LRG QTYS OF WATER. DO NOT INDUCE VOMIT. GET MD IMMED. IF UNCON OR IN CONVL, TAKE IMMED TO HOSPITAL. DO NOT ATTEMPT TO GIVE ANYTHING BY MOUTH TO UNCON PERS. (ING 6)

Fire Fighting

Flash Point Method:TOC

Flash Point:NONE

Lower Limits:8%

Upper Limits:15%

Extinguishing Media:WATER FOG, DRY CHEMICAL, CO2.

Fire Fighting Procedures:WEAR NIOSH/MSHA APPROVED PRESSURE DEMAND SCBA & FULL PROTECTIVE EQUIPMENT .

Unusual Fire/Explosion Hazard:DECOMPOSITION MAY OCCUR. THERMAL DECOMPOSITION PRODUCTS MAY INCLUDE HCL & PHOSGENE .

Accidental Release

Spill Release Procedures: VENTILATE AREA. REMOVE OPEN FLAMES OR OTHER SOURCES OF IGNITION. COLLECT SPILLED PRODUCT WITH ABSORBENT MATERIAL AND PLACE IN CLOSED STEEL DRUMS FOR PROPER DISPOSAL. Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

Handling

Handling and Storage Precautions: DO NOT STORE NEAR SOURCES OF HEAT, IN DIRECT SUNLIGHT, OR WHERE TEMPERATURES EXCEED 120F. DO NOT PUNCTURE OR DAMAGE CONTAINERS. ROTATE STOCK.
Other Precautions: NO SMOKING IN AREA OF USE. DO NOT USE IN THE GENERAL VICINITY OF ARC WELDING, OPEN FLAMES OR HOT SURFACES. HEAT AND/OR UV RADIATION MAY CAUSE THE FORMATION OF HCL & PHOSGENE .

Exposure Controls

Respiratory Protection: NIOSH/MSHA APPROVED RESPIRATORY PROTECTION APPROPRIATE FOR EXPOSURE OF CONCERN .
Ventilation: NORMAL VENT FOR STANDARD MFG PROC IS GEN ADEQ. LOC EXHST WHEN LRG AMTS ARE RELD. MECH VENT SHOULD BE USED IN LOW PLACES.
Protective Gloves: LINED NEOPRENE RUBBER GLOVES.
Eye Protection: CHEMICAL WORKERS GOGGLES .
Other Protective Equipment: EYE BATH AND PROTECTIVE CLOTHES.
Work Hygienic Practices: NONE SPECIFIED BY MANUFACTURER.
Supplemental Safety and Health
HAZ DECOMP PRODS: & POSS CARBONYL HALIDES. PHOSGENE . EFTS OF OVEREXP: HDCH & MAY LEAD TO NARCOSIS, CARDIAC IRREG, CIRCULATORY SYS DEPRESS, UNCON OR DEATH. EYE: CNTCT WILL CAUSE EXTREME IRRIT. INGEST: MAY CAUSE NAUS/VOMIT. ASPIR INTO LUNGS CAN LEAD TO PULM EDEMA, WHICH IS POTNTLY FATAL CNDTN. SKIN: IRRITATION (ING 2)

Chemical Properties

HCC: T4
Boiling Pt: B.P. Text: 165F, 74C
Vapor Pres: 120 @ 68F
Vapor Density: 4.54 @ 68F
Spec Gravity: 1.31 (H2O=1)
Evaporation Rate & Reference: Solubility in Water: NEGLIGIBLE
Appearance and Odor: CLEAR, COLORLESS LIQUID WITH ETHEREAL ODOR

Stability

Stability Indicator/Materials to Avoid: YES
ALKALI & ALKALINE EARTH METALS-POWDERED AL, ZN, BE, OR MG. ALSO REACTS VIOLENTLY WITH STRONG CAUSTICS, ACETONE/NITRATES.
Stability Condition to Avoid: OPEN FLAMES, RED HOT SURFACES.
Hazardous Decomposition Products: CMPND CAN BE DECOMPOSED BY HIGH TEMPS (OPEN FLAMES, GLOWING METAL SURFS, ETC). FORMING HCL & HYDROFLUORIC ACIDS (SUPDAT)

Disposal

Waste Disposal Methods: COMPLY WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS. RECLAIM BY DISTILLATION OR REMOVE TO PERMITTED WASTE DISPOSAL FACILITY.

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