View NSN Online: https://aerobasegroup.co.il/nsn/6810-00-476-5612

DOW CHEMICAL U S A GOVERNMENT MARKETING -- 1,1,1-TRICHLOROETHANE,INHIBITED · 6810-00-476-5612

Product ID:1,1,1-TRICHLOROETHANE, INHIBITED MSDS Date:05/12/1989 FSC:6810 NIIN:00-476-5612 MSDS Number: BDZTH === Responsible Party === Company Name: DOW CHEMICAL U S A GOVERNMENT MARKETING Address:2020 DOW CENTER City:MIDLAND State:MI ZIP:48640-6030 Country:US Info Ph one Num:517-636-4400 Emergency Phone Num:517-636-4400 CAGE:71981 === Contractor Identification === Company Name: CHEMICAL SPECIALISTS AND DEVELOPMENT INC Address:2210 HACKBERRY LN Box:687 City:CONROE State:TX ZIP:77305 Country:US Phone:409-756-1065 CAGE:4N760 Company Name: DOW CHEMICAL CO Address:100 LARKIN CENTER Box:City:MIDLAND State:MI ZIP:48674 Country:US Phone:800-258-2436 CAGE:96717 Company Name: DOW CHEMICAL U S A Address: BARSTOW BLDG City:MIDLAND State:MI ZIP:48640 Country:US Phone:517-636

-4400 CAGE:71981

Ingred Name:METHYL CHLOROFORM (1,1,1-TRICHLOROEHANE) (SARA III) CAS:71-55-6 RTECS #:KJ2975000 Fraction by Wt: 96.5% Other REC Limits:NONE SPECIFIED OSHA PEL:350 PPM/450 STEL ACGIH TLV:350 PPM/450STEL;9192 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 SPECI FIED OSHA PEL:S, 100 PPM ACGIH TLV:S, 25 PPM; 9293 EPA Rpt Qty:100 LBS DOT Rpt Qty:100 LBS

Ingred Name:1,2-BUTYLENE OXIDE (SARA III) CAS:106-88-7 RTECS #:EK3675000 Fraction by Wt: 0.47% Other REC Limits:NONE SPECIFIED EPA Rpt Qty:1 LB DOT Rpt Qty:1 LB

Ingred Name:NITROMETHANE CAS:75-52-5 RTECS #:PA9800000 Fraction by Wt: 0.34% Other REC Limits:NONE SPECIFIED OSHA PEL:100 PPM ACGIH TLV:100 PPM; 9192

LD50 LC50 Mixture:ORAL LD

50 (RAT) IS >10,000 MG/KG Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO Health Hazards Acute and Chronic:PRODUCT IS IRRITATING TO BODY TISSUES, AND IS A CENTRAL NERVOUS SYSTEM DEPRESSANT, CAUSING NAUSEA AND DIZZINESS. CHRONIC OVER EXPOSURE MAY CAUSE DERMATITIS, LIVER AND/OR KIDNEY DAMAGE. Explanation of Carcinogenicity:1,4-DIOXANE IS LISTED AS A CARCINOGEN BY

Explanation of Carcinogenicity:1,4-DIOXANE IS LISTED AS A CARCINOGEN BY IARC, NTP. TESTED AS A MIXTURE, THE PRODUCT SHOWED NO CARCINOGENICITY.

Effects of Overexposure:HEADACHE, DIZZINESS, DROWSINESS, NAUSEA, TINGLING OR NUMBNESS OF THE EXTREMITIES, SENSES OF FULLNESS IN THE HEAD, SENSE OF WARMTH, STUPOR OR DULLNESS, LETHARGY AND DRUNKENNESS. VERY HIGH CONCENTRATION S MAY LEAD TO UNCONSCIOUSNESS OR EVEN DEATH IN CONFINED OR POORLY VENTILATED AREAS.

Medical Cond Aggravated by Exposure:NONE GIVEN BY MANUMACTURER.

First Aid:EYE:FLUSH

W/WATER 15 MIN, HOLD LIDS OPEN. SKIN:WASH WITH SOAP & WATER. REMOVE CONTAMINATED CLOTHING AND LAUNDER BEFORE REUSE. INHALED:REMOVE TO FRESH AIR. RESTORE BREATHING IF NECESSARY. INGESTED:D O NOT INDUCE VOMITING. GIVE 2 LARGE GLASSES OF MILK OR WATER AND GET IMMEDIATE MEDICAL CARE. GIVE NOTHING BY MOUTH IF UNCONSCIOUS. IF IRRITATION PERSISTS OR IS SEVERE,SEE A DOCTOR.

Flash Point Method:TCC
Flash Point:NON-FLAMMABLE
Lower Limits:7.5
Upper Limits:12.5
Extinguishing Media:USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY CHEMICAL.
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:FIRE OR EXCESSIVE HEAT MAY CAUSE PRODUCTION OF HAZARDOUS DECOMPOSITION PRODUCTS. PRODUCT WILL FORM FLAMMABLE MIXTURES IN CONFINED & POOR

## LY VENTILATED AREAS.

Spill Release Procedures:SMALL SPILL: WIPE UP WITH RAGS OR TOWELS. VENTILATE AREA. RESIDUE WILL EVAPORATE QUICKLY. DO NOT FLUSH TO SEWER OR WATERWAY. Neutralizing Agent:NONE

Handling and Storage Precautions:STORE IN A COOL, DRY, WELL-VENTILATED LOCATION, AWAY FROM ANY AREA WHERE THE FIRE HAZARD MAY BE ACUTE. KEEP CONTAI

NERS CLOSED WHEN NOT IN USE.

Other Precautions: VAPORS ARE HEAVIER THAN AIR AND WILL COLLECT IN LOW AREAS. DO NOT ENTER WHERE VAPORS ARE SUSPECTED WITHOUT SELF CONTAINED BREATHING APPARATUS AND AN OBSERVER.

Respiratory Protection:USE NIOSH/MSHA APPROVED AIR SUPPLIED RESPIRATOR OR RESPIRATOR FOR ORGANIC VAPOR IF EXPOSURE IS ABOVE THE TLV/PEL. IF EXPOSED ABOVE 1000 PPM USE ONLY A SUPPLIED AIR RESPIRATOR. SEE 2

9 CFR 1910.134 FOR REGULATIONS PERTAINING TO RESPIRATOR USE Ventilation:NORMAL ROOM VENTILATION IS SUFFICIENT. SUPPLEMENT WITH LOCAL EXHAUST IF PEL/TLV IS EXCEEDED.

Protective Gloves: NEOPRENE, PVA GLOVES RECOMMENDED.

Eye Protection: SAFETY GLASSES OR SPLASH GOGGLES

Other Protective Equipment: APRON AND WORK CLOTHING TO MINIMIZE EXPOSURE. EYE WASH STATION & SAFETY SHOWER RECOMMENDED. Work Hygienic Practices: USE GOOD CHEMICAL HYGIENE PRACTICE. AVOID

UNNECESSARY CONTACT. WASH THOROUGHLY

BEFORE EATING OR DRINKING.

Supplemental Safety and Health

TARGET ORGANS ARE SKIN, CNS, CVS, AND EYES.

HCC:T4 Boiling Pt:B.P. Text:165F,74C Vapor Pres:100 MM Vapor Density:4.55 Spec Gravity:1.321 Solubility in Water:0.07% Appearance and Odor:CLEAR, COLORLESS LIQUID,IRRITATING ODOR Percent Volatiles by Volume:100%

Stability Indicator/Materials to Avoid:YES W

- ATER AND ALUMINUM STORAGE CONTAINERS WILL DETERIORATE THE MATERIAL. POWDERED REACTIVE METALS SUCH AS ALUMINUM OR ZINC.
- Stability Condition to Avoid:HIGH TEMPERATURES, ARCS, SPARKS, AND OPEN FLAMES
- Hazardous Decomposition Products:WHEN INVOLVED IN FIRE, PRODUCT EMITS HIGHLY TOXIC AND IRRITATING FUMES OF HYDROGEN CHLORIDE AND PHOSGENE.

- Waste Disposal Methods:DISPOSE I/A/W ALL FEDERAL, STATE AND LOCAL REGULATI
- ONS. MANUFACTURER SUGGESTS RECYCLE (PREFERRED) OR INCINERATE.

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.