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

DOW CHEMICAL U S A GOVERNMENT MARKETING -- 1,1,1-TRICHLOROETHANE,INHIBITED

6810-00-476-5612

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

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 US A GOVERNMENT MARKETING

Address:2020 DOW CENTER

City:MIDLAND

State:MI

ZIP:48640-6030

Country:US

Info Phone

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 USA

Address:BARSTOW BLDG

City:MIDLAND

State:MI ZIP:48640 Country:US

Phone:517-636-44

00

CAGE:71981

======= Composition/Information on Ingredients ========

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 SPECIFIE

D

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

========= Hazards Identification ============================

LD50 LC50 Mixture: ORAL LD50

(RAT) IS >10,000 MG/KG

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

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 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.

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

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 & POORLY

VENTILATED AREAS.
======== Accidental Release Measures ==========
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 ===========
Handling and Storage Precautions:STORE IN A COOL, DRY, WELL-VENTILATED LOCATION, AWAY FROM ANY AREA WHERE THE FIRE HAZARD MAY BE ACUTE KEEP CONTAINER S 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.
====== Exposure Controls/Personal Protection ========
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 29 C FR 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 BE FORE EATING OR DRINKING. Supplemental Safety and Health TARGET ORGANS ARE SKIN, CNS, CVS, AND EYES.
======== Physical/Chemical Properties =========
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 and Reactivity Data =========
Stability Indicator/Materials to Avoid:YES

Stability Indicator/Materials to Avoid:YES WATE

- R 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.

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

Waste Disposal Methods:DISPOSE I/A/W ALL FEDERAL, STATE AND LOCAL REGULATIONS

. 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.