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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

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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 |

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- 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.

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