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VULCAN CHEMICALS -- SOLVENT 111,DF -- 6810-01-424-9673

Product ID:SOLVENT 111,DF

MSDS Date:12/01/1993

FSC:6810

NIIN:01-424-9673

Status Code:A

MSDS Number: CJLTR === Responsible Party ===

Company Name: VULCAN CHEMICALS

Box:530390

City:BIRMINGHAM

State:AL ZIP:35253 Country:US

Info Phone Num:316-524-5751

Emergency Phone Num:316-524-5751

CAGE:EO675 === Contractor Ide

ntification ===

Company Name: VULCAN CHEMICALS

Box:530390

City:BIRMINGHAM

State:AL

ZIP:35253-0390

Country:US

Phone:316-524-5751

CAGE:EO675

Company Name: VULCAN MATERIALS CO

Address:NO 1 METROPLEX DR

Box:530390

City:BIRMINGHAM

State:AL ZIP:35253 Country:US

Phone: 316-524-5751

CAGE:1B637

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

Ingred Name:1,1,1-TRICHLOROETHANE

CAS:71-55-6

RTECS #:KJ2975000

= Wt:96.5

OSHA PEL:1900 MG/M3;350 PPM ACGIH TLV:1910 MG/M3;350 PPM

ACGIH STEL:246

0 MG/M3;450 PPM EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS Ozone Depleting Chemical:1

Ingred Name: ETHYLENE GLYCOL FORMAL

CAS:646-06-0

RTECS #:JH6760000

< Wt:3.

Ingred Name:SEC-BUTANOL

CAS:78-92-2

RTECS #:EO1750000

< Wt:2.

OSHA PEL:450 MG/M3;150 PPM ACGIH TLV:303 MG/M3;100 PPM

Ingred Name:1,2-BUTYLENE OXIDE

CAS:106-88-7

RTECS #:EK3675000

< Wt:.5

EPA Rpt Qty:1 LB DOT Rpt Qty:1 LB

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

Routes of Entry: Inhalation:YES Skin

:YES Ingestion:NO

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

Health Hazards Acute and Chronic:INHALATION IS THE MAJOR ROUTE OF EXPOSURE. MINIMUM EFFECTS OBSERVED BELOW 1000 PPM. DIZZINESS, DROWSINESS, AND THROAT IRRITATION AT LEVELS ABOVE 1000 PPM. UNCONCIOUSNESS AND DEATH POSSIBLE AT LEVELS A BOVE 10000 PPM. PROLONGED SKIN CONTACT CAN CAUSE IRRITATION, DEFATTING OF SKIN AND DERMATITIS. ON EYE CONTACT, LIQUID CAN CAUSE SLIGHT TEMPORARY IRRITATION WITH SLIGHT T

EMPORARY CORNEAL INJURY. IF IN GESTED,

SINGLE DOSE TOXICITY IS LOW TO MODERATE. IF VOMITING OCCURS, 1,1,1-TRICHLOROETHANE CAN BE ASPIRATED INTO THE LUNGS, WHICH CAN CAUSE CHEMICAL PNEUMONIA AND SYSTEMIC EFFECTS.

Effects of Overexposure:DIZZINESS, DROWSINESS, THROAT IRRITATION AT LEVEL ABOVE 1000 PPM.

Medical Cond Aggravated by Exposure: ACUTE AND CHRONIC LIVER DISEASE AND RHYTHM DISORDERS OF THE HEART.

Fir

St Aid:INHALED: REMOVE TO FRESH AIR. IF BREATHING HAS STOPPED,
ADMINISTER ARTIFICIAL RESPIRATION, CALL A PHYSICIAN. SKIN: REMOVE
CONTAMINATED CLOTHING AND SHOES. WASH EXPOSED AREAS WITH SOAP AND
WATER. WASH CONTAMINATED CLOTHING BEFORE REUSE. EYES: FLUSH EYES
IMMEDIATELY WITH WATER FOR AT LEAST 15 MINUTES. IF IRRITATION
PERSISTS, CALL A PHYSICIAN. INGESTED: DO NOT INDUCE VOMITING.
CONTACT A PHYSICIAN OR EMERGENCY MEDICAL FACILITY IMMEDIATELY.

	==== Fir
e Fighting Measures	=======================================

Flash Point Method:TCC

Flash Point:NONE Lower Limits:7.5 Upper Limits:15.0

Extinguishing Media:WATER,FOAM,DRY CHEMICAL,CARBON DIOXIDE
Unusual Fire/Explosion Hazard:CONCENTRATED VAPORS CAN BE IGNITED BY
HIGH INTENSITY IGNITION SOURCE FIREFIGHTERS SHOULD WEAR
SELF-CONTAINED POSITIVE-PRESSURE BREATHING APPARATUS, DUE TO
THERMAL DECOMPOSITION PRODUCTS AND AVOID SKI N CONTACT.

======== Accidental Release Measures ===========

Spill Release Procedures:EVACUATE THE AREAS. VENTILATE AND AVOID BREATHING VAPORS. DIKE AREA TO CONTAIN SPILL. IF SPILL OCCURS INDOORS, TURN OFF AIR CONDITIONING AND/OR HEATING SYSTEM TO PREVENT VAPORS FROM CONTAMINATING ENTI RE BUILDING. CLEAN UP AREA BY MOPPING OR WITH ABSORBENT MATERIAL AND PLACE IN CLOSED CONTAINERS FOR DISPOSAL. DO NOT FLUSH TO SEWER.

=========== Handling and Storage ============================

Handling and Storage Precautions:STORE LABELED AN D SEALED CONTAINERS IN

A COOL, DRY, WELL-VENTILATED AREA. PREVENT WATER OR MOISTURE FROM ENTERING STORAGE TANKS OR CONTAINERS. DO NOT CUT OR WELD ON EMPTY OR FULL DRUMS. ALUMINUM EQUIP MENT SHOULD NOT BE USED FOR STORAGE OR TRANSFER.

Other Precautions:DO NOT REMOVE OR DEFACE LABEL. DO NOT REUSE DRUM WITHOUT RECYCLING OR RECONDITIONING IN ACCORDANCE WITH ANY APPLICABLE FEDERAL, STATE, OR LOCAL LAWS.

====== Exposure Controls/Personal Protection ========

Resp

iratory Protection:WHERE VAPOR CONCENTRATION IS LIKELY TO EXCEED350PPM, A NIOSH/MSHA APPROVED ORGANIC VAPOR TYPE RESPIRATOR IS ACCEPTABLE. NIOSH/MSHA APPROVED SELF-CONTAINED BREATHING APPARATUS OR AIR LINE RESPIRATOR, W ITH FULL FACE PIECE IS REQUIRED FOR CONCENTRATIONS ABOVE 1000PPM AND FOR SPILLS AND EMERGENCIRES.

Ventilation:DO NOT USE IN CLOSED OR CONFINED SPACE.OPEN WINDOWS/DOORS.USE VENTILATION TO MAINTAIN EXPOSURE LEVELS BELOW 350 PPM.

Protective Gloves: SOLVENT-RES

ISTANT GLOVES (VITRON, POLYVINYL ALCOHOL, OR EQUIVALENT)

Eye Protection: CHEMICAL GOGGLES; OR FACE SHIELDS

Other Protective Equipment:SOLVENT RESISTANT BOOTS, APRON, HEADGEAR AND/OR FACESHIELD IF SPLASHING IS POSSIBLE. SAFETY SHOWER AND EYEWASH STATION.

Work Hygienic Practices:AVOID CONTACT WITH SKIN AND AVOID BREATHING VAPORS. DO NOT EAT, DRINK, OR SMOKE IN WORK AREA. WASH HANDSPRIOR TO EATING, DRINKING, OR USING RESTROOM.

Supplemental Safety and Health

	== Physical
/Chemical Properties	

HCC:T4

Boiling Pt:=74.C, 165.2F

Vapor Pres:100 MMHG @ 20C

Vapor Density: 4.6 (AIR=1 Spec Gravity: 1.30@25C

Evaporation Rate & Reference: 0.4 (ETHER=1)

Solubility in Water: 0.07GM/100GM @25C

Appearance and Odor: CLEAR, COLORLESS LIQUID; MILDLY SWEET ODOR

Percent Volatiles by Volume:100

======== Stability and Reactivity Data =========

Stability Indicator/Materials to Avoid:YES

STRONG ALKALIES, OXIDIZERS, AND REACTIVE MATERIALS (I.E.

ALU

MINUM, POTASSIUM, SODIUM, ETC).

Stability Condition to Avoid:OPEN FLAME, ELECTRIC ARCS, OR OTHER HOT SURFACES WHICH CAN CAUSE THERMAL DECOMPOSITION.

Hazardous Decomposition Products: HYDROGEN CHLORIDE, PHOSGENE, CHLORINE

======== Toxicological Information ==========

Toxicological Information:TWO OF THE THREE STUDIES PERFORMED ON LAB ANIMALS INVOLVING 1,1,1-TRICHLOROETHANE INDICATED NO REPRODUCTIVE TOXICITY. THE THIRD STUDY NOTED DELAYS IN NORMAL DEVELOPMENT, BUT TH

Ε	SE DELAYS DID NOT AFFEC T LATER LIFE. TWO STUDIES INVOLVING
	BYTYLENE OXIDE FOUND NO TERATOGENIC EFFECTS IN EXPOSED RATS OR
	RABBITS.

	Disposal Considerations	
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Waste Disposal Methods:RECOVERED LIQUIDS MAY BE SENT TO A LICENSED RECLAIMER OR INCINERATION FACILITY. CONTAMINATED MATERIAL MUST BE DISPOSED OF IN A PERMITTED WASTE MANAGEMENT FACILITY.

======= MSDS Transport Information ==========

Transport Information:D

OT SHIPPING NAME: 1,1,1-TRICHLOROETHANE. PLACARD REQUIRED.

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