

VULCAN MATERIALS CO -- SOLVENT 111 GENERAL PURPOSE GRADE,INDUSTRIAL GRADE --  
6810-00-930-6311

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

Product ID:SOLVENT 111 GENERAL PURPOSE GRADE,INDUSTRIAL GRADE

MSDS Date:03/01/1994

FSC:6810

NIIN:00-930-6311

Status Code:A

MSDS Number: CKJGM

=== Responsible Party ===

Company Name:VULCAN MATERIALS CO

Address:NO 1 METROPLEX DR

Box:530390

City:BIRMINGHAM

State:AL

ZIP:352

53

Country:US

Info Phone Num:316-524-5751

Emergency Phone Num:316-524-5751

CAGE:1B637

=== Contractor Identification ===

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

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===== 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:2460 MG/M3;450 PPM

EP

A Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS  
Ozone Depleting Chemical:1

Ingred Name:1,4-DIETHYLENE DIOXIDE  
CAS:123-91-1  
RTECS #:JG8225000  
&lt; Wt:3.  
OSHA PEL:360 MG/M3;100 PPM  
ACGIH TLV:90 MG/M3;25 PPM  
EPA Rpt Qty:100 LBS  
DOT Rpt Qty:100 LBS

Ingred Name:1,2-BUTYLENE OXIDE  
CAS:106-88-7  
RTECS #:EK3675000  
&lt; Wt:.5  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

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

LD50 LC50 Mixture:NOT PROVIDED  
Routes of Entry: Inhalation:YES Skin:YES Ingestion  
:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:INHALATION: ABOVE 1000 PPM: DIZZINESS,  
DROWSINESS & THROAT IRRITATION. ABOVE 10000 PPM: UNCONSCIOUSNESS &  
DEATH. BLOOD PRESSURE DEPRESSION, CARDIAC SENSITIZATION,  
VENTRICULAR ARRHYTHMIA. SKIN: PROLONG ED/REPEATED CONTACT CAN CAUSE  
IRRITATION, SKIN DEFATTING & DERMATITIS. ABSORBTION THROUGH INTACT  
SKIN IS POSSIBLE. EYES: TEMPORARY IRRITATION WITH SLIGHT CORNEAL  
INJURY. VAPORS IRRITATE  
EYES. INGESTIO N. SINGLE DOSE TOXICITY IS  
LOW TO MODERATE. IF VOMITING OCCURS 1,1,1-TRICHLOROETHANE CAN BE  
ASPIRATED IN LUNGS CAUSING CHEMICAL PNEUMONIA & SYSTEMIC EFFECTS.  
Explanation of Carcinogenicity:AVAILABLE DATA INDICATES  
1,1,1-TRICHLOROETHANE NOT CARCINOGENIC IN LAB ANIMALS.  
Effects of Overexposure:DIZZINESS, DROWSINESS, THROAT IRRITATION, BLOOD  
PRESSURE DEPRESSION, CARDIAC SENSITIZATION, VENTRICULAR ARRHYTHMIA.  
Medical Cond Aggravated by Exposure:ACUTE & CHRONIC LIVER D

ISEASE &  
RHYTHM DISORDERS OF THE HEART

===== First Aid Measures =====

First Aid:INHALATION: REMOVE TO FRESH AIR. IF BREATHING HAS STOPPED, ADMINISTER ARTIFICIAL RESPIRATION. CALL PHYSICIAN. SKIN: REMOVE CONTAMINATED CLOTHING & SHOES. WASH EXPOSED AREA WITH SOAP & WATER. WASH CONTAMINATED CLOTHING BEFORE REUSE. EYES: FLUSH EYES IMMEDIATELY WITH WATER FOR AT LEAST 15 MINUTES. IF IRRITATION PERSISTS, CALL A PHYSICIAN. INGESTION: DO NOT INDUCE VOMITING. CONTACT PHYSICIAN OR EMERGENCY MEDICAL FACILITY IMMEDIATELY. NOTE TO PHYSICIAN: ADRENALIN SHOULD NEVER BE GIVEN TO PERSONS OVEREXPOSED TO 1,1,1-TRICHLOROETHANE.

===== Fire 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  
Fire Fighting Procedures:FIREFIGHTERS SHOULD WEAR SELF-CONTAINED POSITIVE-PRESSURE BREATHING APPARATUS, DUE TO THERMAL DECOMPOSITION PRODUCTS & TO AVOID SKIN CONTACT.  
Unusual Fire/Explosion Hazard:CONCENTRATED VAPORS CAN BE IGNITED BY HIGH INTENSITY IGNITION SOURCE.

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

Spill Release Procedures:EVACUATE AREA, VENTILATE & AVOID BREATHING VAPORS. DIKE AREA TO CONTAIN SPILL. IF SPILL OCCURS INDOORS, TURN OFF A/C & HEATING SYSTEM TO PREVENT VAPORS FROM CONTAMINATING BUILDING. CLEAN/MOP UP AREA OR USE ABSORBENT & PLACE IN CLOSED CONTAINERS FOR DISPOSAL. AVOID CONTAMINATION OF GROUND & SURFACE WATERS. DO NOT FLUSH TO SEWER. RQ IS 1000 LB.  
Neutralizing Agent:NOT PROVIDED

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

Handling and Storage Precautions:STORE LABELED & SEALED CONTAINERS IN COOL, DRY, WELL-VENTILATED AREA. PREVENT WATER OR MOIST AIR FROM ENTERING STORAGE TANKS OR CONTAINERS. DO NOT CUT OR WELD ON EMPTY OR FULL DRUMS. ALUMINUM EQUIPMENT SHOULD NOT

TO BE USED FOR STORAGE  
OR TRANSFER.

Other Precautions: VAPORS HEAVIER THAN AIR & COLLECT IN LOW AREAS. DO NOT ENTER CONFINED AREAS LIKE TANKS/PITS W/O FOLLOWING PROPER PROCEDURE. CONTACT WITH ALUMINUM PARTS IN PRESSURIZED FLUID SYSTEM MAY CAUSE VIOLENT REACTIONS. CONSULT EQUIPMENT MANUFACTURER. DO NOT REMOVE/DEFACE LABEL. DO NOT REUSE DRUM WITHOUT RECYCLING/RECONDITIONING.

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

Respiratory Protection: WHERE V

APOR CONCENTRATION EXCEEDS 350 PPM, A

NIOSH/MSHA APPROVED ORGANIC VAPOR RESPIRATOR IS ACCEPTABLE. A NIOSH/MSHA APPROVED SELF-CONTAINED BREATHING APPARATUS OR AIR LINE RESPIRATOR, WITH FULL FACE PIECE, IS REQUIRED FOR VAPOR CONCENTRATIONS ABOVE 1000 PPM & FOR SPILLS AND/OR EMERGENCIES. FOLLOW ANY APPLICABLE RESPIRATOR USE STANDARDS OR REGULATIONS.

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

Protective Gloves: SOLVENT RESISTANT SUCH AS VITON, POLYVINYL ALCOHOL OR EQUIVALENT

Eye Protection: SAFETY GLASSES. NO CONTACTS. CHEMICAL GOGGLES &/OR FACE SHIELDS IF SPLASHING

Other Protective Equipment: SOLVENT RESISTANT BOOTS, APRON, HEADGEAR AND/OR FACE SHIELD SHOULD BE WORN IF SPLASHING IS POSSIBLE. SAFETY SHOWER & EYEWASH STATION.

Work Hygienic Practices: AVOID SKIN CONTACT & AVOID BREATHING VAPORS. DO NOT EAT, DRINK OR SMOKE IN WORK AREA. WASH HANDS PRIOR TO EATING,

DRINKING OR USING RESTROOM. MONITOR EXPOSURE LEVELS REGULARLY.

Supplemental Safety and Health

===== Physical/Chemical Properties =====

HCC: T4

Boiling Pt: =73.9C, 165.F

Vapor Pres: 100 MG HG @ 20C

Vapor Density: 4.6

Spec Gravity: 1.32

Evaporation Rate & Reference: 0.4, ETHER = 1

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

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

Percent Volatiles by Volume: 100

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

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Stability Indicator/Materials to Avoid: YES

STRONG ALKALIES, OXIDIZERS & REACTIVE METALS (I.E. ALUMINUM, POTASSIUM, SODIUM, ETC.)

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

Hazardous Decomposition Products: HYDROGEN CHLORIDE, PHOSGENE, CHLORINE

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

Toxicological Information: CHRONIC OVEREXPOSURES TO

1,1,1-TRICHLOROETHANE

& THIS PRODUCT HAVE CAUSED LIVER TOXIC

EFFECTS IN EXPERIMENTAL ANIMALS. THIS MAY INDICATE TOXICITY TO HUMANS. OVEREXPOSURE SHOULD BE AVOIDED. STUDIES ON LAB ANIMALS TO EVALUATE EFFECTS ON REPRODUCTION & FETAL DEVELOPMENT PERFORMED. TWO OF 3 STUDIES INDICATE NO REPRODUCTIVE TOXICITY. THIRD STUDY NOTED DELAYS IN NORMAL DEVELOPMENT BUT THESE DELAYS DID NOT AFFECT LATER LIFE. STUDIES IN LAB ANIMALS HAVE SHOWN 1,1,1-TRICHLOROETHANE IN AEROSOL FORM TO BE MORE ACUTELY

TOXIC THAN 1,1,1-TRICHLOROETHANE VAPOR.

===== Ecological Information =====

Ecological: NOT PROVIDED

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

Waste Disposal Methods: COVERED LIQUIDS MAY BE SENT TO LICENSED RECLAIMER OR INCINERATION FACILITY. CONTAMINATED MATERIAL MUST BE DISPOSED OF IN A PERMITTED WASTE MANAGEMENT FACILITY. CONSULT FEDERAL, STATE OR LOCAL DISPOSAL AUTHORITIES FOR APPROVED PROCEDURES.

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

Transport Information: DOT SHIPPING DESCRIPTION: 1,1,1-TRICHLOROETHANE, 6.1, UN 2831, PG III, RQ. LABEL: KEEP AWAY FROM FOOD

===== Regulatory Information =====

SARA Title III Information: 1,1,1-TRICHLOROETHANE & 1,4 DIETHYLENE DIOXIDE ARE SARA 313 CHEMICALS.

Federal Regulatory Information: 1,1,1-TRICHLOROETHANE CERCLA RQ IS 1000 LB, RCRA CODE IS U226. 1,4 DIETHYLENE DIOXIDE CERCLA RQ IS 100 LB

' RCRA CODE IS U108.

State Regulatory Information:NOT PROVIDED

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