

SHAPE PRODUCTS -- TOLUENE -- 6810-00-711-2185

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

Product ID:TOLUENE  
MSDS Date:10/19/1990  
FSC:6810  
NIIN:00-711-2185  
MSDS Number: BJZCM  
=== Responsible Party ===  
Company Name:SHAPE PRODUCTS  
Address:1127 57TH AVE.  
City:OAKLAND  
State:CA  
ZIP:94621-4427  
Country:US  
Info Phone Num:415-534-1186  
Emergency Phone Num:415-534-1186  
Preparer's Name:DGSC-SSH  
CAGE:3D869  
=== Contr  
actor Identification ===  
Company Name:SHAPE PRODUCTS  
Address:1127 57TH AVE.  
Box:City:OAKLAND  
State:CA  
ZIP:94621-4427  
Country:US  
Phone:510-534-1186 OR 800-444-0015  
CAGE:3D869

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

Ingred Name:TOLUENE (SARA III)  
CAS:108-88-3  
RTECS #:XS5250000  
Fraction by Wt: 100%  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:200 PPM/150 STEL  
ACGIH TLV:50 PPM; 9293  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

===== Hazards Identification

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LD50 LC50 Mixture:ORAL LD50 (RAT) IS 1.7 GM/KG

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

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

Health Hazards Acute and Chronic:PRODUCT IS MILDLY IRRITATING TO BODY TISSUES. IT MAY PRODUCE CENTRAL NERVOUS SYSTEM DEPRESSION, AND PROLONGED AND/REPEATED CONTACT MAY CAUSE DERMATITIS.

Explanation of Carcinogenicity:THE COMPONENTS OF THIS PRODUCT HAVE NOT SHOWN A EVIDENCE OF BEING CARCINOGENIC.

Effects of

Overexposure:EYE:IRRITATION, SKIN:MILD IRRITATION,POSSIBLE DERMATITIS WITH PROLONGED/REPEATED CONTACT. INHALED:RESPIRATORY IRRITATION, NAUSEA, DIZZINESS, HEADACHE. INGESTED:G/I IRRITATION, NAUSEA,VOMITING.

Medical Cond Aggravated by Exposure:PEOPLE WITH A SKIN DISORDER SHOULD

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

First Aid:EYE:FLUSH W/WATER 15 MIN, HOLD LIDS OPEN.SKIN:WASH WITH SOAP & WATER. REMOVE CONTAMINATED CLOTHING AND LAUNDRER BEFORE REUSE

INHALED:REMOVE TO FRESH AIR. RESTORE BREATHING IF NECESSARY.INGESTED:DO NOT INDUCE VOMITING. GIVE 2 LARGE GLASSESOF 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:41.0F,5.0C

Lower Limits:1.0

Upper Limits:7.0

Extinguishing Media:USE CARBON DIOXIDE, FOAM, DRY CHEMICAL, OR WATER FOG.

WATER, ESPECIALLY STREAM, MAY CAUSE FROTHING.

Fire Fighting Procedures:FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCB & FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE. USE WATER SPRAY TO CO NEARBY CONTAINERS EXPOSED TO FIRE.

Unusual Fire/Explosion Hazard:FIRE OR EXCESSIVE HEAT MAY CAUSE PRODUCTI OF HAZARDOUS DECOMPOSITION PRODUCTS.

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

Spill Release Procedures:WIPE UP WITH CLOTH, PAPER ETC. STO IN CLOSED CONTA

INNER PENDING DISPOSAL.

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

Handling and Storage Precautions:STORE IN A COOL, VENTILATED WORK AREA.  
KEEP CONTAINERS CLOSED WHEN NOT IN USE.

Other Precautions:'EMPTY' CONTAINERS MAY CONTAIN RESIDUE OR VAPOR.  
TREAT THE WITH THE RESPECT DUE FULL ONES. DO NOT CUT,WELD,ETC. ON  
THEM. GROUND CONTAINERS BEFORE TRANSFERRING LIQUID. AVOID HAVING  
OPEN ELECTRICAL EQUIPMENT IN VAPOR AREAS.

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

Respiratory Protection:RESPIRATOR WILL NOT NORMALLY BE NECESSARY. USE  
NIOSH/MSHA APPROVED AIR SUPPLIED RESPIRATOR OR RESPIRATOR FOR  
ORGANIC VAPOR IF EXPOSURE IS ABOVE THE TLV/PEL. SEE 29 CFR 1910.134  
FOR REGULATIONS PERTAINING TO RESPIRATOR USE.

Ventilation:LOCAL AND MECHANICAL EXHAUST RECOMMENDED.

Protective Gloves:NEOPRENE, NITRILE, OR POLYVINYL ALCOHOL

Eye Protection:SAFETY GLASSES OR SPLASH GOGGLES

Other Protective Equipment:EYE WASH STATION & SAFETY  
SHOWER.

Work Hygienic Practices:USE GOOD CHEMICAL HYGIENE PRACTICES. AVOID  
PROLONGED/REPEATED CONTACT. DO NOT EAT, DRINK OR SMOKE IN WORK  
AREA.

Supplemental Safety and Health

MSDS GENERATED AT DGSC IN RESPONSE TO REQUEST. SUPPLIER COULD NOT  
DETERMINE THE MANUFACTURER FOR 1985 ORDER, THUS THIS MSDS WRITTEN  
FROM SEVERAL OTHER MSDS OF TOLUENE AND TECHNICAL DATA.

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

HCC:F2

Boiling Pt:=110.C, 230.F

Vapor Pres:22 MM

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Vapor Density:3.2

Spec Gravity:0.871

Evaporation Rate & Reference:2.0 (BUTYL ACETATE = 1)

Solubility in Water:NEGLIGIBLE

Appearance and Odor:CLEAR, COLORLESS LIQUID, AROMATIC SOLVENT ODOR

Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS

Stability Condition to Avoid:HIGH TEMPERATURES, SPARKS, AND OPEN FLAMES

Hazardous Decomposition Products:CARBON MONOXIDE, CARBON DIOXIDE AND

OTHER HYDROCARBON COMPOUNDS DURING COMBUSTION.

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

Waste Disposal Methods:DISPOSE I/A/W ALL FEDERAL, STATE AND LOCAL REGULATIONS MANUFACTURER SUGGESTS THAT DISPOSAL MAY BE DONE BY INCINERATION.

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