

ASHLAND CHEMICAL CO. -- TOLUENE -- 6810-00-281-2002

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

Product ID:TOLUENE

MSDS Date:02/12/1993

FSC:6810

NIIN:00-281-2002

MSDS Number: BDSQB

=== Responsible Party ===

Company Name:ASHLAND CHEMICAL CO.

Box:2219

City:COLUMBUS

State:OH

ZIP:43216

Country:US

Info Phone Num:614-790-3333

Emergency Phone Num:800-274-5263

CAGE:34897

=== Contractor Identification ===

Company Name:ASHLAND CHEMICAL CO

Box:2219

City:COLUMBUS

State:OH

ZIP:4321

6-2219

Country:US

Phone:614-790-3333/800-274-5263

CAGE:34897

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

Ingred Name:TOLUENE (SARA III)

CAS:108-88-3

RTECS #:XS5250000

Fraction by Wt: 100%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:200 PPM/150 STEL

ACGIH TLV:50 PPM; 9293

EPA Rpt Qty:1000 LBS

DOT Rpt Qty:1000 LBS

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

LD50 LC50 Mixture:LD50 ORAL RAT IS UNKNOWN.

Routes of Entry: Inhalation:YES Skin:YES I

ngestion:NO

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

Health Hazards Acute and Chronic:ACUTE: SEVERE EYE IRRITATION, NASAL AND RESPIRATORY TRACT IRRITATION, CENTRAL NERVOUS SYSTEM EFFECTS, POSSIBLE UNCONSCIOUSNESS, EVEN DEATH. INGESTION CAN CAUSE GASTROINTESTINAL IRRITATION. ASPIRATION INTO LUNGS AFTER INGESTION CAN CAUSE CHEMICAL PNEUMONITIS AND DEATH. CHRONIC: LIVER, KIDNEY AND BRAIN DAMAGE.

Explanation of Carcinogenicity:TOLUENE MAY BE HARMFUL TO THE FETUS

BASED ON LABORATORY STUDIES.

Effects of Overexposure:EYES: BURNING, TEARING, REDNESS, SWELLING. SKIN: REDNESS, BRUNING, DRYING, CRACKING. INHALATION: DIZZINESS, WEAKNESS, FATIGUE, NAUSEA, HEADACHE, UNCONSCIOUSNESS, DEATH. INGESTION: NAUSEA, VOMITING, DI ARRHEA, AND SAME SYMPTOMS AS INHALATION.

Medical Cond Aggravated by Exposure:PREEXISTING EYE, SKIN, CENTRAL NERVOUS SYSTEM AND RESPIRATORY DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

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First Aid Measures =====

First Aid:EYES: FLUSH WITH PLENTY OF WATER FOR 15 MINUTES. SEE DOCTOR. SKIN: REMOVE CONTAMINATED CLOTHING. WASH WITH SOAP AND WATER. SEE DOCTOR. INHALATION: REMOVE VICTIM TO FRESH AIR. GIVE OXYGEN/CPR IF NEEDED . SEE DOCTOR. INGESTION: DO NOT INDUCE VOMITING. GIVE VEGETABLE OIL OR CHARCOAL SLURRY. IF SPONTANEOUS VOMITING OCCURS, KEEP HEAD BELOW HIPS TO PREVENT ASPIRATION INTO LUNGS. SEE DOCTOR IMMEDIATELY.

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= Fire Fighting Measures =====

Flash Point Method:TCC

Flash Point:=7.2C, 45.F

===== 45 =====

Lower Limits:1.2

Upper Limits:7.0

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

Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY.

Unusual Fire/Explosion Hazard:VAPORS HEAVIER THA

N AIR. CAN TRAVEL ALONG
GROUND AND FLAHSBACK. COMBUSTION OR HEAT OF FIRE MAY PRODUCE
HAZARDOUS DECOMPOSITION PRODUCTS AND VAPORS.

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

Spill Release Procedures:ELIMINATE IGNITION SOURCES. VENTILATE AREA.
WEAR PROPER PROTECTIVE EQUIPMENT. ABSORB IN INERT ABSORBENT AND
TRANSFER TO HOOD.
Neutralizing Agent:NOT APPLICABLE.

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

Handling and Storage Precautions:STORE IN COOL, DRY, WELL VENTILATED
PLACE, AWAY FROM HEAT, IGNITION SOURCES AND INCOMPATIBLE MATERIALS.
KEEP CONTAINERS CLOSED WHEN NOT IN USE.
Other Precautions:AVOID BREATHING VAPORS, AND EYE AND SKIN CONTACT. USE
ONLY WITH ADEQUATE VENTILATION. DO NOT TAKE INTERNALLY. EMPTY
CONTAINERS RETAIN RESIDUE, TREAT THEM AS IF THEY WERE FULL.

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

Respiratory Protection:NONE NORMALLY REQUIRED WITH ADEQUATE
VENTILATION. NIOSH/MSHA RESPIRATOR WITH ORGANIC VAPOR CARTRIDGE
APPROPRIATE FOR EXPOSURE OF CONCERN OR SCBA IF TLV IS EXCEEDED.
Ventilation:MECHANICAL (GENERAL) AND/OR LOCAL EXHAUST VENTILATION TO
MAINTAIN EXPOSURE BELOW TLV. USE EXPLOSION-PROOF EQUIPMENT.
Protective Gloves:NEOPRENE GLOVES.
Eye Protection:CHEMICAL SPLASH GOGGLES.
Other Protective Equipment:WORK CLOTHING TO PREVENT REPEATED OR
PROLONGED SKIN CONTACT. EYE WASH STATION AND SAFETY SHOWER.
Work Hygienic Practices:WASH THOROUGHLY
AFTER HANDLING. LAUNDER
CONTAMINATED CLOTHING. DISCARD CONTAMINATED LEATHER GOODS.
Supplemental Safety and Health
NEVER USE WELDING OR CUTTING TORCH NEAR THIS ITEM, BECAUSE PRODUCT,
EVEN JUST RESIDUE, CAN IGNITE EXPLOSIVELY.

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

HCC:F2
Boiling Pt:=111.1C, 232.F
B.P. Text:232F,111C
Vapor Pres:22 @ 68F
Vapor Density:3.2
Spec Gravity:0.872
Evaporation Rate & Reference:2.0 (BUTYL ACETATE = 1)
Solubility in Water:INSOLUBLE

. Appearance and Odor: CLEAR COLORLESS LIQUID. BENZENE-LIKE ODOR.

Percent Volatiles by Volume: 100

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

Stability Indicator/Materials to Avoid: YES

STRONG OXIDIZING AGENTS

Stability Condition to Avoid: HIGH HEAT, OPEN FLAMES AND OTHER SOURCES OF IGNITION

Hazardous Decomposition Products: CARBON MONOXIDE, CARBON DIOXIDE, AND REACTIVE HYDROCARBONS (ALDEHYDES, AROMATICS, ETC.)

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

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Waste Disposal Methods: CONSULT YOUR LOCAL ENVIRONMENTAL OFFICER.

DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

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