

MATERIAL SAFETY DATA SHEET for XYLENE

Section 1 – Manufacturer Information

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Section 2 – Hazardous Ingredients

Hazardous Ingredients:

Toluene	CAS #108-88-3
Acetone	CAS #67-44-1
Benzene	CAS #71-43-2

OSHA PEL:	ACGIH TLV:	Other Limits:	Contents (%)
200 ppm	50 ppm	¹ see note	90%
750 ppm	1000 ppm	² Trace	10%
1 ppm	.5 ppm	³ see note	Trace

- ¹Note: ACGIH-OSHA short term exposure limit for Toluene is 200 ppm. NIOSH recommends a limit of 8 ppm per hour TWA; 200 ppm 10 minute ceiling.
- ²This chemical is subject to the reporting requirements of Section 313 of SARA Title III- Environmental Data included under Section 9.
- ³Note: ACGIH-OSHA short term exposure limit for Benzene is 1 ppm. NIOSH recommends a limit of 8 ppm per hour TWA; .5 ppm 15 minute ceiling.

GENERAL INFORMATION: To the best of our knowledge the information contained herein is correct. Lambert Corporation of Florida, Inc. assumes no responsibility for accuracy or completeness. User is responsible for suitability.

FOR INDUSTRIAL USE ONLY.

HMIS Rating: Health - 2 Flammability – 3 Reactivity – 0 Personal Protection – F

Section 3 – Physical/Chemical Characteristics

Boiling Point:	231°F	Specific Gravity (H2 = 1):	.869-0.873
Vapor Pressure (mm Hg.) @ 77°:	28	Melting Point:	N/A
Vapor Density (AIR = 1):	3.14	Evaporation Rate (Butyl Acetate = 1):	2.0

Solubility in Water: NEGLIGIBLE
Appearance and Odor: COLORLESS, CLEAR LIQUID WITH A SWEET AROMATIC ODOR

Section 4 – Fire and Explosion Hazard Data

<i>Flash Point (Method Used):</i> TCC 40°F	<i>Flammable Limits</i>	<i>LEL</i>	<i>UEL</i>
<i>Extinguishing Media:</i> DRY CHEMICAL, REGULAR FOAM, CARBON DIOXIDE	<i>In air % by volume:</i>	1.2%	7.1%

Special Fire Fighting Procedures : WEAR SCBA WITH A FULL FACEPIECE OPERATED IN THE POSITIVE PRESSURE DEMAND MODE WHEN FIGHTING FIRES. WATER SPRAY MAY BE USEFUL IN MINIMIZING OR DISPERSING VAPORS & COOLING EQUIPMENT EXPOSED TO HEAT AND FLAME. AVOID SPREADING BURNING LIQUID WITH WATER USED FOR COOLING PURPOSES. VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL ALONG THE GROUND OR BE MOVED BY VENTILATION & IGNITED BY HEAT, PILOT LIGHTS, OTHER FLAMES AND IGNITION SOURCES DISTANT FOR MATERIAL HANDLING POINT.

Unusual Fire and Explosion Hazards: NEVER USE WELDING OR CUTTING TORCH ON OR NEAR DRUM (EVEN EMPTY) BECAUSE PRODUCT (EVEN RESIDUE) CAN IGNITE EXPLOSIVELY. ALL METAL CONTAINERS SHOULD BE GROUNDED OR BONDED WHEN MATERIAL IS TRANSFERRED.

Section 5 – Reactivity Data

Stability: Stable Unstable

Conditions to Avoid: AVOID ALL POSSIBLE SOURCES OF IGNITION, HEAT, SPARK, OR FLAME, & BUILDUP OF STATIC ELECTRICITY.

Incompatibility (Materials to Avoid): STRONG ACIDS OR BASES, OXIDIZING AGENTS OR SELECTED AMINES.

Hazardous Decomposition of Byproducts: COMBUSTION MAY YIELD CARBON MONOXIDE AND/OR CARBON DIOXIDE, REACTIVE HYDROCARBONS AND IRRITATING VAPORS.

Hazardous Polymerization: May Occur Will Not Occur

Conditions to Avoid: NONE

Section 6 – Health Hazard Data*Routes of Entry:*

Eyes: IRRITANT

Inhalation: IRRITANT

Skin: MODERATE IRRITANT

Ingestion: MILD EXCITATION

Health Hazards (Acute and Chronic): OVER-EXPOSURE TO THIS MATERIAL (OR COMPONENTS) HAS APPARENTLY BEEN FOUND TO CAUSE THE FOLLOWING EFFECTS IN ANIMALS: LIVER ABNORMALITIES, KIDNEY DAMAGE, LUNG DAMAGE, SPLEEN DAMAGE. OVER-EXPOSURE TO THIS MATERIAL (OR COMPONENTS) HAS BEEN SUGGESTED AS A CAUSE OF LIVER ABNORMALITIES IN HUMANS. DELIBERATE MISUSE BY INTENTIONALLY INHALING VAPOR MAY BE HARMFUL OR FATAL.

Carcinogenicity: NONE

NTP: NO

IARC Monographs: NO

OSHA Regulated: FLAMMABLE

Signs and Symptoms of Exposure: REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OCCUPATIONAL OVER-EXPOSURE TO SOLVENTS WITH PERMANENT BRAIN & NERVOUS SYSTEM DAMAGE.

Medical Conditions Generally Aggravated by Exposure: DERMATITIS, PRE-EXISTING LUNG DISORDERS.

Emergency First Aid Procedures: **EYES:** FLUSH WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. **SKIN:** WASH EXPOSED AREA WITH SOAP AND WATER. **INHALATION:** REMOVE TO FRESH AIR. **INGESTION: DO NOT INDUCE VOMITING.** CALL DOCTOR IMMEDIATELY. ASPIRATION HAZARD – GIVE NOTHING BY MOUTH BECAUSE MATERIAL CAN ENTER LUNGS AND CAUSE SEVERE LUNG DAMAGE. IF POSSIBLE DO NOT LEAVE VICTIM UNATTENDED. ASPIRATION OF MATERIAL INTO THE LUNGS DUE TO VOMITING CAN CAUSE PNEUMONITIS WHICH CAN BE FATAL. FOR ANY OTHER PERSISTENT IRRITATION, GET MEDICAL ATTENTION.

Section 7 – Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled: REMOVE SOURCES OF HEAT OR IGNITION, INCLUDING INTERNAL COMBUSTION ENGINES & POWER TOOLS. SMALL SPILL: ABSORB LIQUID ON PAPER, VERMICULITE, FLOOR ABSORBENT MATERIAL & TRANSFER TO WASTE DISPOSAL CONTAINER. LARGE SPILL: KEEP ALL UNNECESSARY PEOPLE AWAY FROM AREA,. STOP SPILL AT SOURCE, DIKE AREA TO PREVENT SPREADING PUMP LIQUID INTO SALVAGE TANK. ABSORB REMAINING LIQUID AS SMALL SPILL & SHOVEL INTO CONTAINERS. DO NOT FLUSH TO SEWER.

Waste Disposal Method: DISPOSE OF MATERIAL THROUGH A LICENSED WASTE DISPOSAL COMPANY. FOLLOW ALL FEDERAL, STATE & LOCAL REGULATIONS. CONTROLLED BURNING OR APPROVED LANDFILL BURIAL FOR CONTAMINATED ABSORBENT. FOLLOW ALL RULES.

Precautions to be Taken in Handling and Storage: STORE IN TIGHTLY CLOSED CONTAINERS IN A COOL, DRY PLACE AWAY FROM SOURCES OF HEAT OR IGNITION. GROUND AND BOND ALL TRANSFER AND STORAGE EQUIPMENT.

Other Precautions: EMPTY CONTAINERS MAY CONTAIN RESIDUE AND CAN BE DANGEROUS. DO NOT CUT, WELD, BRAZE, DRILL, GRIND, OR PRESSURIZE. CONTAINERS MAY EXPLODE AND CAUSE INJURY OR DEATH.

Section 8 – Control Measures

Respiratory Protection (Type): IF WORKPLACE EXPOSURE LIMIT IS EXCEEDED A NIOSH/OSHA APPROVED AIR SUPPLIED RESPIRATOR IS ADVISED.

Ventilation:

Local Exhaust: PROVIDE SUFFICIENT TO MAINTAIN EXPOSURE BELOW TLV(S).

Mechanical (General): NONE

Special: NONE

Other: NONE

Protective Gloves: RESISTANT - NITRILE RUBBER

Eye Protection: CHEMICAL SPLASH GOGGLES

Other Protective Clothing or Equipment: WEAR IMPERVIOUS CLOTHING AS NEEDED. SAFETY SHOWER AND EYE BATH IN VICINITY IS RECOMMENDED.

Work/Hygienic Practices: PRACTICE GOOD HOUSEKEEPING. USE GOOD PERSONAL HYGIENE.

Section 9 – ENVIRONMENTAL DATA

Regulatory Controls for Product ingredient: ACETONE (10%)

This product is listed on the EPA/TSCA inventory of chemical substances. Protection of stratospheric ozone (pursuant to Section 611 of the Clean Air Act Amendments of 1990): Per 40 CFR part 82, this product does not contain nor was it directly manufactured with any Class I or Class II ozone depleting substances.

Environmental Release Information:

EPA – COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION AND LIABILITY ACT. UNDER EPA - CERCKA ("SUPERFUND") RELEASE TO AIR, LAND OR WATER WHICH EXCEED THE REPORTABLE QUANTITY MUST BE REPORTED TO THE NATIONAL RESPONSE CENTER 800-424-8802. THE REPORTABLE QUANTITY (RQ) FOR THIS PRODUCT IS 5,000 LBS.

RCRA Information:

UNDER EPA – RCRA (40 CFR 262.33), IF ACETONE BECOMES A WASTE MATERIAL, IT WOULD BE A HAZARDOUS WASTE, HAZARDOUS WASTE MATERIAL, IT WOULD BE AN IGNITABLE HAZARDOUS WASTE, HAZARDOUS WASTE NUMBER D001. REFER TO LASTEST EPA OR STATE REGULATIONS REGARDING PROPER DISPOSAL.