



SAFETY DATA SHEET

1. Identification of Substance and Manufacturer:

Methyl Ethyl Ketone PCN: 291

Use: To be used only with Aqua Torch as per directions.

Supplier: L&R Manufacturing Company, 577 Elm Street, P.O. Box 607 Kearny, NJ 07032-0607 USA.

Publication Date: 9/11/2014

REV: J

Product information call 201-991-5330 www.lrultrasonics.com

For emergencies involving a spill, leak fire or accident contact CHEMTREC 800-424-9300 with the United States. Or (01) 703-527-3887 (USA) for International collect calls.

2. HAZARDS IDENTIFICATION



WARNINGS! FLAMMABLE LIQUID AND VAPOR. MAY BE HARMFUL IF SWALLOWED. MAY AFFECT THE CENTRAL NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. PROLONG OR REPEATED CONTACT MAY DRY THE SKIN AND CAUSE IRRITATION AND BURNS.

B: POTENTIAL HEALTH EFFECTS:

Acute Eyes: Severely irritating. If not removed promptly will injure eye, which may result in permanent damage.

Acute Skin: Prolonged or repeated contact causes redness, drying of the skin and dermatitis.

Acute Inhalation: Concentrations of 100 – 200 ppm cause throat and nose irritation. Higher concentrations cause more severe irritation, headache, nausea, dizziness and may have other central nervous system effects.

Acute Ingestion: Minimal toxicity. Small amount of liquid aspiration into the respiratory system during ingestion or from vomiting may cause bronchopneumonia or pulmonary edema.

Chronic Effects: This product does not contain any ingredient designated by IARC, NTP, ACGIH or OSHA as probable or suspected human carcinogen. Reports have associated repeated and prolonged overexposure to solvent with neurological and other physiological damage.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS Number	Percentage
Methyl Ethyl Ketone	78-93 -3	99-100

4. FIRST AID MEASURES

Eye Exposure: Hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. Seek medical attention.

Skin Exposure: Wash thoroughly with water. Remove grossly contaminated clothing. If irritation or redness develops, seek medical attention.

Inhalation: If respiratory irritation or distress occurs, move victim to fresh air. Seek medical attention if respiratory irritation or distress continues.

Ingestion: Seek immediate medical attention. DO NOT INDUCE VOMITING.

MEDICAL CONDITIONS POSSIBLY AGGRAVATED BY EXPOSURE: Skin contact may aggravate existing skin disease.

5. FIRE FIGHTING MEASURES

FIRE HAZARD DATA:

Suitable Extinguishing Media: Extinguish with dry chemical, CO₂ or a BC/ABC extinguisher.

Unsuitable Extinguishing Media: Do not use a solid stream of water, since the stream will scatter and spread the fire.

Water spray may be used to keep fire exposed containers cool.

Special Fire Fighting Procedures: Wear full protective clothing and self-contained breathing apparatus (SCBA) approved for fire fighting.

Unusual Fire and Explosion Hazards: Closed containers may explode due to build up of pressure when exposed to extreme heat.

Hazardous Decomposition Materials: (under fire conditions) Oxides of nitrogen and carbon.

6. ACCIDENTAL RELEASE MEASURES

Cleanup and Disposal of Spill: Ventilate area of spill. Use non-reactive material to pick up spill. Dispose of in accordance with local, state and federal regulations.

Environmental and Regulatory Reporting: Not required

7. HANDLING AND STORAGE

Minimum/Maximum Storage Temperatures: 39 to 100 ° F. PROTECT FROM HEAT, SPARKS AND FLAMES

HANDLING: AVOID CONTACT WITH SKIN, EYES OR CLOTHING

8. EXPOSURE CONTROL/PERSONAL PROTECTION

General: These recommendations provide general guidance for handling of this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. When developing safe handling procedures, do not overlook the need to clean and dispose of the material. Waste resulting from the use of this product should be handled in accordance with Section 13: Disposal Considerations.

Exposure Guidelines: Exposure limits are recommended worker breathing limits. The following limits apply to this material:

INGREDIENTS

LIMITS

Methyl Ethyl Ketone 200 ppm OSHA/ TWA, 300 ppm OSHA/ACGH STEL

Engineering Controls: Provide adequate room ventilation.

Respiratory Controls: For reasonable uses of this material, respiratory protection should not be necessary.

Eye/Face Protection: Safety glasses to protect from splashing.

Skin Protection: Wear Rubber or plastic gloves to avoid drying and irritation to the skin.

Work Practice Control: Normal hygiene in the work area should be taken when working with or handling this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Clear Liquid

pH: Not Established

Water Solubility: 5 – 90%

Freezing Point Range: Not Established

Vapor Pressure (vs. Air or mm HG): 83 mm HG at 75 °F

Decomposition Temperature: Not available

Auto Ignition Point: 759°F

Percent volatile by volume: Approx. 100 % by volume

Color: Water White

Specific Gravity: 0.806

Melting Point Range: Not applicable

Boiling Point: Approx 175°F

Flash Point: 24 °F (- 4.4° C)

Explosive Limits: LEL: 1.8% at 77 °F UEL 11.5% at 77°F

V.O.C. (calculated): 6. 7 lbs/gal or 805 g/l

Odor: Characteristic

Odor Threshold: Not available

Evaporation Rate: Not available

Partition Coefficient; n-octanol / water: Not available

Vapor Density: (air=1) 2.5

Method: Tag Closed

10. STABILITY AND REACTIVITY

Chemical Stability: Stable

Conditions to be avoided: Keep away from heat and open flames

Materials/Chemicals to be avoided: Strong Acids, Chlorinated Compounds, Caustic, Amines, Ammonia, Aldehydes, Oxidizing Agents.

Hazardous Decomposition Products: Thermal Oxides of carbon and nitrogen

Possibility of Hazardous Reactions: WILL NOT OCCUR

11. TOXICOLOGICAL INFORMATION

Acute Eye Irritation: Irritating to eyes.

LD 50 (14 days) Rabbit (male) dermal > 8000 mg/kg .

LC 50 (4 hour) Rat (male) inhalation: 34,500 mg/cu m (11,700 ppm)

Acute Oral Toxicity LD50 (rat): Methyl Ethyl Ketone 2737 mg/kg

Chronic Toxicity: This product does not contain any substances that are considered by OSHA, NTP, IARC OR ACGIH to be a probable or suspected human carcinogen. No additional test data was found for this product.

12. ECOLOGICAL INFORMATION

Ecotoxicological Information: No data found.

13. DISPOSAL CONSIDERATIONS

This material is a flammable liquid and must be disposed in accordance with all local, state and federal regulations. IT CAN NOT BE DISPOSED OF IN A SANITARY SEWER SYSTEM.

14. TRANSPORTATION INFORMATION

For approved domestic ground shippers this product is listed as ORM-D for ground shipments. For all other shippers or any other transportation the proper designation is: Flammable Liquid (Ethyl Methyl Ketone), Class 3, UN 1193, PG II, do not stack cartons more than five high.

15. REGULATORY INFORMATION

Inventory Issues: All components of this product are listed on the U.S. TSCA, Canadian DSL, European EINECS/ELINS chemical listings

16. OTHER INFORMATION

National Fire Protection Association

Hazard Rating, NFPA

Health

Flammability

Reactivity

Special

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MSDS CHANGES

REV

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J

DATE

2/19/13

9/11/2014

DESCRIPTION OF CHANGE

Update Transportation

SDS Format

Disclaimer: The information herein is given in good faith but no warranty expressed or implied is made. This SDS has been prepared by L&R Manufacturing Company.