



MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: CCW LM-800XL mastic
Synonyms: Solvent-based Mastic
Product Use: A fillet and reinforcement under CCW MiraDRI membranes.

Manufacturer/Supplier Carlisle Coatings & Waterproofing Incorporated 900 Hensley Lane Wylie, TX 75098 Internet Address: www.Carlisle-CCW.com Fax Number: (918) 442-0076	Phone Numbers Medical Emergency: CHEMTREC(USA): (800) 424-9300 CHEMTREC(International): (703) 527-3887 MSDS Assistance: (972) 442-6545 Fax On Demand: NA
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2. COMPONENT INFORMATION

Component	CAS No.	Percent Range	Hazardous in Blend
Heptane	142-82-5	15-30	
Toluene	108-88-3	5-10	
Naphtha Light Aliphatic	64742-89-8	15-30	
Styrene-Isoprene Polymer	25038-32-8	15-25	
Hydrocarbon Resin	152698-66-3	15-25	

This product is hazardous according to OSHA 29 CFR 1910.1200.

Hazards:
Flammable/Combustible X Acute Toxin X Chronic Toxin X Carcinogen
Pressure X Reactive No Exposure Limit Target Organ Other

3. HAZARDS IDENTIFICATION

Emergency and Hazards Overview:
Mixture contains flammable component and the vapor may ignite explosively. Vapor is heavier than air and may travel to distant sources of ignition and flash back. Harmful if swallowed or inhaled. Overexposure to vapor may cause lightheadedness, giddiness, stupor, headache, vertigo or central nervous depression. May cause irritation to eyes, skin and respiratory tract.

Ratings
Health 2 Flammability 3 Reactivity 0

Primary Route of Exposure: Skin x Inhalation x Eye x Ingestion x
Health Effect Information

- Eye Contact:** May cause eye irritation if wiped or rubbed into eyes.
 - Skin Contact:** May cause skin irritation if wiped on the skin. Prolonged contact may cause Dermatitis.
 - Inhalation:** High vapor concentration is irritating to the eyes and the respiratory tract. It may cause headaches, dizziness, anesthesia, drowsiness, pulmonary edema, anorexia, nausea, vomiting,, and other central nervous system effects.
 - Ingestion:** Moderately toxic. Small amount of the liquid aspirated into the respiratory system during ingestion or vomiting may cause mild to severe pulmonary injury.
- Medical Conditions Aggravated by Exposure:** Prolonged exposure to vapor may aggravate allergic reactions to nose, throat and lungs.

4. FIRST AID INFORMATION

Eye Contact: Flush eyes with large amount of water until irritation subsides. If irritation persists, get medical attention.

Skin Contact: Flush with large amount of water, using soap if available. Remove contaminated clothing including shoes and laundry before reuse. See a physician if irritation develops.

Inhalation: Using proper respiratory protection, immediately remove the exposed person to fresh air. Administer artificial respiration if breathing stops. Keep at rest. Call for prompt medical attention.

Ingestion: If swallowed contact a physician immediately. Keep at rest. Do not induce vomiting. Decision induce vomiting should only be made by a physician. Never give anything by mouth to an unconscious person.

Notes to Physician: This product contains heptane, toluene, and naphtha light aliphatic solvent.

5. FIRE AND EXPLOSION INFORMATION

Flammable Properties:

Flash Point: <18°F

Test Method: TCC

Flame extension: NA

Test Method: NA

Flammable Limits in Air

Upper Percent: 7

Lower Percent: 0.6

Autoignition Temperature: 495°F

Test Method: NA

NFPA Classification: H 2 F 3 R 0

Extinguishing Media: CO₂, foam or dry chemicals.

Fire Fighting Measures:

Special Fire Fighting Procedures and Equipment: Firemen must wear full-face air-supplied mask and full protective clothing. Use water spray only to cool containers. Do not spray water on leaked material. Wear NIOSH/OSHA approved, self-contained breathing apparatus and full protective gear. Liquid or vapor may settle in low areas or travel along ground to ignition sources where they may ignite or explode and flash back.

Unusual Fire and Explosion Conditions: Vapor may be ignited by heat or sparks. Heat-exposed containers may burst. Material may collect static charges which can cause an incendiary electrical discharge. Empty container contains product residues. Do not pressurize, cut, weld, drill, grind or expose containers to heat flame, sparks, static electricity or other sources of ignition. They may explode and cause injury or death. Either the liquid or vapor may settle in low areas or travel some distance along the ground or surface to ignition sources where they may ignite or explode.

Hazardous Combustion By-Products: CO, CO₂, unburned hydrocarbons and acrid fumes.

6. ACCIDENTAL RELEASE MEASURES

Personnel Safeguards: Immediately evacuate all non-essential personnel to safe places. Emergency responders should wear proper protective gears before entering the affected area. Observe all precautions noted above.

Regulatory Notifications: Waste of this product is defined as hazardous according to U.S. EPA. Spill reporting requirements and reportable quantities vary by region. Consult all applicable state and local regulations. For Canada, observe all precautions noted above.

Containment and Clean up: Remove all sources of ignition. Avoid sparks, flames, heat and smoking. Ventilate. Stop leak if possible without risk. Do not use metal shovels or other tools which could create sparks. Prevent liquids from entering sewers, drains or waterways by diking with sand or earth. Absorb with vermiculite or other absorbent material and remove for disposal.

7. HANDLING AND STORAGE INFORMATION

Handling: Eliminate all ignition sources. Provide good ventilation. Avoid prolonged

contact with the skin. Use solvent resistant gloves. Avoid rubbing eyes while handling.

Storage: Store in cool, dry, ventilated space away from direct sunlight. Keep away from heat, sparks, open flames, electrical equipment, welding torches, pilot lights, etc.

Empty Container Warnings:

Drums: Do not reuse empty drums. Do not cut, drill, grind or weld on or near the empty drums.

Plastic: Not applicable.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION INFORMATION

Exposure Limits and Guidelines:

Component	CAS No.	Exposure Limit
Heptane	142-82-5	400 ppm, TWA, OSHA
Toluene	108-88-3	100ppm TWA
Naphtha Light Aliphatic Solvent	64742-89-8	500 ppm OSHA Pel

Personal Protective Equipment:

Eye/Face Protection: Wear safety goggles.

Skin Protection: Use solvent resistant gloves.

Respiratory Protection: Provide adequate ventilation to maintain vapors below TLV/TWA. If vapor levels are exceeded, use NIOSH approved respirator, both during and immediately after application until vapor levels are below limits.

Personal Hygiene: Avoid rubbing eyes during handling. Use good personal hygiene practices to avoid incidental ingestion.

Engineering Controls / Work Practices:

Ventilation: Provide local exhaust or area ventilation to maintain concentration of vapors below TLV/TWA. Use explosion proof ventilation equipment. Take care not to draw vapors into non-explosion proof or spark generating equipment.

Other: Source of clean water should be available in the work area for flushing eyes and skin. Wash thoroughly with soap and water after use and before eating, smoking and using toilet.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Green colored Liquid	Flash Point: 18°F(TCC)
Odor: Typical solvent odor	Vapor Pressure: 80 mm Hg @ 77°F
Physical state: Liquid	Vapor Density (air=1): > air
pH: Not applicable	Percent Volatile by Volume: 58%
DOT Corrosivity: Not applicable	Volatile Organic Content: 377.5 g/liter
Boiling Point: 187°F	Molecular Weight: NA
Melting Point: NA	Average Carbon Number: NA
Specific Gravity: 0.9	Viscosity @ 100 F: NA
Pour Point: NA	Viscosity @ 40 C: NA
Solubility in Water: Negligible	
Octanol / Water Coefficient: Log K _{ow} = NA	

10. STABILITY AND REACTIVITY INFORMATION

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: Avoid extreme temperature, heat, sparks and flames.

Incompatible Materials to Avoid: Strong oxidizers and strong acids.

11. TOXICOLOGICAL INFORMATION (will only print available data)

Primary Eye Irritation: Irritating

Primary Skin Irritation: Irritating

Acute Dermal Toxicity: NA

Subacute Dermal Toxicity: NA

Dermal Sensitization: Prolonged exposure may cause dermatitis.

Inhalation Toxicity: Product toxicity has not been determined. Followings are component data:

LC₅₀ Toluene: Rat >26,700 ppm 1 hr; Mouse 400ppm 24 hrs

Inhalation Sensitization: NA

Oral Toxicity: Product toxicity has not been determined. Following are component data:

LD₅₀ Heptane: Rat 28,710 mg/kg

Mutagenicity: NA

Carcinogenicity: NA

Reproductive Toxicity: NA

Teratogenicity: NA

Immunotoxicity: NA

Neurotoxicity: NA

Other: NA

No other toxicological information available

12. ECOLOGICAL INFORMATION

Aquatic Toxicity: Not known.

Terrestrial Toxicity: Not known.

Chemical Fate and Transport: Not known.

No other ecological information available.

13. DISPOSAL INFORMATION

Regulatory Information: Consult all regulations (federal, state, provincial, local etc.) or a qualified waste disposal firm when characterizing waste for disposal.

Waste Disposal Methods: Dispose of waste in accordance with all applicable regulations. Waste which results from the clean-up of spilled product, absorbed by a noncombustible absorbing media, would not be considered a hazardous waste once heptane has evaporated.

14. TRANSPORTATION INFORMATION

U.S. Department of Transportation (DOT)

Highway / Rail (Bulk): A red flammable liquid caution label is required. Class 1B flammable liquid, UN1133 adhesive.

Highway / Rail (Non-Bulk): PGII (containing heptane, toluene, naphtha), UN1133 adhesive.

The DOT description is provided to assist in the proper shipping classification of this product and may not be suitable for all shipping descriptions.

International Information:

Vessel: IMDG Regulated: Class 3.2 **IMDG Not Regulated**

Air: ICAO Regulated: Class 3 **ICAO Not Regulated**

Other: No other information available.

15. REGULATORY INFORMATION

Regulatory Lists

U.S. TSCA Inventory: All components of this material are on the US TSCA Inventory or exempt from listing on the TSCA Inventory.

Sara Section 313: This product contains the following Sara, Title III, Section 313 chemicals.

Component	CAS No.	Percent
Toluene	108-88-3	5-10

Regulatory Lists Searched

Health & Safety: NA

Environmental: NA

International: NA

State: Heptane is in Florida Toxic Substances List, in Pennsylvania Hazardous Substances List but not in California Proposition 65. Toluene is in FL, CA, MA, MN, PA, RI

National Inventories: NA

SARA 311 / 312 Categories

Acute: Yes **Chronic:** Yes **Fire:** Yes **Pressure:** Yes **Reactive:** No

Not Regulated:

California Proposition 65 Information: This product contains substances known to the State of California to cause developmental toxicity.

Canadian WHMIS Classification

Class: B **Division:** 2

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations (CPR). This MSDS contains all the information required by the CPR.

European Union Classification

Hazard Symbol:



Highly
Flammable



Harmful

Risk Phrases: R11, R20, R42/R43

Safety Phrases: S9, S16, S36, S51

Other Regulations: No other information available.

16. OTHER INFORMATION

Health and Environmental Label Language

All ingredients contained in this product are included on the US EPA Toxic Substances Control Act (TSCA) inventory or exempt from listing on the TSCA inventory. All ingredients contained in this product comply with the requirements of the Canadian Environmental Protection Act (CEPA) and are listed on the Domestic Substance List (DSL) or Non-Domestic Substance List (NDSL).

MSDS Revisions

Previous Version Date: 04/01/02

Section

Old Information: 9 parts version

New Information: 16 parts version

Prepared By: Stephen Choi **Date:** 11/01/02

Disclaimer of Warranty: The information contained herein is based upon data and information available to us, and reflects our best professional judgment. This product may be formulated in part with components purchased from other companies. In many instances, especially when proprietary or trade secret materials are used, Carlisle Coating & waterproofing Inc. must rely upon the hazard evaluation of such components submitted by that product's manufacturer or importer. No warranty of merchantability, fitness for any use, or any other warranty is expressed or implied regarding the accuracy of such data or information. The results to be obtained from the use thereof, or that any such use does not infringe any patent, since the information contained herein may be applied under conditions of use beyond our control and with which we may be unfamiliar, we do not assume responsibility for the results of such application. This information is furnished upon the condition that the person receiving it shall make his own determination of the suitability of the material for his particular use.