

# MATERIAL SAFETY DATA SHEET

## CARLISLE COATINGS & WATERPROOFING

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** CCW LM800XL Mastic

**Synonyms:** Solvent-Based Mastic

**Product Use:** A fillet and reinforcement for use under MiraDRI and other CCW Membranes

**Manufacturer/Supplier**

Carlisle Coatings and Waterproofing Incorporated  
900 Hensley Lane  
Wylie, TX 75098

**Internet Address:** [www.Carlisle-CCW.com](http://www.Carlisle-CCW.com)

**Fax Number:** (972) 442-0076

**Phone Numbers**

**Medical Emergency:**

**CHEMTREC (USA):** (800) 424-9300

**CHEMTREC (International):** (703) 527-3887

**MSDS Assistance:** (972) 442-6545

**Technical Assistance:** (888) 229-2199

**Customer Service:** (888) 229-0199

### 2. COMPONENT INFORMATION

Component	CAS No.	Percent Range	Hazardous in Blend
Heptane	142-82-5	15 - 30	Yes
Toluene	108-88-3	5 - 10	Yes
Light Aliphatic Naphtha Solvent	64742-89-8	15 - 30	Yes

This product is not hazardous according OSHA 29 CFR 1910.1200.

**Hazards:**

Flammable/Combustible Yes Acute No Chronic No Carcinogen No  
Toxin        Toxin         
Pressure No Reactive No Exposure Limit        Target Organ        Other       

### 2A. OTHER INGREDIENTS Greater than 3%

Component	CAS No.
Styrene Isoprene Polymer	25038-32-8
Hydrocarbon Resin	152698-66-3

### 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 a distant source 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 moderate irritation to eyes.

**Ratings**

Health 2 Flammability 3 Reactivity 0

**Primary Route of Exposure:** Skin x Inhalation x Eye x Ingestion x

**Primary Entry Routes:** Skin contact, skin absorption, eye contact, inhalation, ingestion.

**Target Organs:**

**Acute Effects**

**Inhalation:** High vapor concentration is irritating to eyes and the respiratory tract. It may cause headaches, dizziness, drowsiness, pulmonary edema, nausea and vomiting and other central nervous system effects.

**Eye:** Irritation on short term exposure to liquid or vapor.

# » MATERIAL SAFETY DATA SHEET

## CARLISLE COATINGS & WATERPROOFING

**Skin:** Irritation on short term exposure to liquid or vapor. Solvents may be absorbed through the skin in toxic amounts.

**Ingestion:** Irritation of gastrointestinal tract.

**Carcinogenicity:** IARC, NTP, and OSHA do not list this product as a carcinogen.

**Medical Conditions Aggravated by Long-Term Exposure:** Respiratory symptoms associated with pre-existing lung disorders and pre-existing heart disorders may be aggravated by exposure to this material.

**Chronic Effects:** Overexposure may result in headache, dizziness, fatigue, nausea and loss of consciousness. Chronic exposure may cause reversible kidney and liver damage.

### 4. FIRST AID MEASURES

**Inhalation:** Remove victim to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get medical attention immediately.

**Eye Contact:** Immediately flush eyes with running water for at least 15 minutes. Get medical attention.

**Skin Contact:** Immediately flush skin with running water and remove contaminated clothing. Wash exposed area with soap and water. Get medical attention.

**Ingestion:** Do not induce vomiting. Get medical attention immediately.

**Note to Physicians:** This product contains organic solvents.

**Special Precautions/Procedures:** Whenever possible, remove the worker from the source of contamination.

### 5. FIRES AND EXPLOSION INFORMATION

#### Flammable Properties

**Flash Point:** -13°C/ 8°F

**Test Method:** Closed cup

**Flame extension:** NA

**Test Method:** NA

#### Flammable Limits in Air

**Upper Percent:** 7% by volume

**Lower Percent:** 1.0 % by volume

**Autoignition Temperature:** 433°F (223°C)

**Test Method:** NA

**NFPA Classification:** H 2 F 3 R 0

**Flammability Classification:** Division 2. Ignition can occur when this product is exposed to heat, sparks, or flame.

**Extinguishing Media:** In case of fire, use dry chemical, carbon dioxide, or foam. Water may not be effective as an extinguishing agent. Water fog or spray may be used to provide a smothering effect on fire and to cool fire-exposed container and surrounding combustibles. Do not use a solid stream of water because it can scatter and spread the fire.

**Unusual Fire or Explosion Hazards:** Extremely flammable. Store and use away from all sources of heat, flame, or sparks. DO NOT smoke while applying. Vapors are heavier than air and may travel along ground or may be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electrical motors, static discharge, or other ignition sources at location distant from material handling point and flash back. All containers should be grounded when material is transferred.

**Hazardous Combustion Products:** Toxic gases or vapors, such as carbon monoxide, carbon dioxide, or oxides of nitrogen may be released in a fire.

**Fire-Fighting Instructions:** This product contains solvents that are dangerous fire and explosion hazards when exposed to heat or flame. Fire fighters should wear self-contained breathing apparatus and full protective clothing with a full face piece operated in the positive pressure demand mode.

**Fire-Fighting Equipment:** Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode.

# » MATERIAL SAFETY DATA SHEET

## CARLISLE COATINGS & WATERPROOFING

### 6. ACCIDENTAL RELEASE MEASURES

**Spill /Leak Procedures:** Remove all sources of ignition. Avoid breathing vapors. Use self-contained breathing apparatus in enclosed area. Ventilate area. Contain and remove with inert absorbent materials and non-sparking tools.

**Large Spills:**

**Containment:** For large spills, dike far ahead of liquid spill for later disposal. Do not release into sewers or waterways.

**Cleanup:** Clean-up spill as soon as possible. Collect any excess material with absorbent pads, sand or other inert non-combustible absorbent materials. Place into appropriate waste containers for later disposal. Comply with all laws and regulations.

**Regulatory Requirements:** Follow applicable OSHA regulations (29 CFR 1910.120).

### 7. HANDLING AND STORAGE INFORMATION

**Handling Precautions:** Use away from all sources of heat, flame, or sparks. Do not smoke while using. Handling equipment must be grounded to prevent sparking. Handle with non-sparking tools. Wash with soap and water before eating or drinking. Launder contaminated clothing. **KEEP OUT OF REACH OF CHILDREN.**

**Storage Requirements:** Keep containers cool, dry, and store away from all sources of heat, flame, and sparks. Keep containers tightly closed and store with adequate ventilation. Do not pressurize, cut, weld, or grind the containers or empty containers which may contain residual product and solvent vapors that may ignite explosively.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION INFORMATION

#### Exposure Limits and Guidelines

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

**Engineering Controls:** Do not use in enclosed areas without proper explosion-proof ventilation. General and local exhaust ventilation must be sufficient to control vapor concentrations and keep the PEL below 100 ppm.

**Ventilation:** Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec. 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

**Administrative Controls:**

**Respiratory Protection:** Approved respirator must be used if PEL is 100 ppm or above.

**Protective Clothing/Equipment:** Hycron, Neoprene, or Nitrile glove recommended. Glasses or goggles recommended. Industrial shoes to protect feet from adhesive contact. Protective skin creams or emollients useful.

**Safety Stations:** Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

**Contaminated Equipment:** Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment.

**Comments:** Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

# » MATERIAL SAFETY DATA SHEET

C A R L I S L E C O A T I N G S & W A T E R P R O O F I N G

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b> Green colored very viscous liquid	<b>Vapor Pressure:</b> 45 mm Hg @ 20°C
<b>Odor:</b> Typical solvent odor	<b>Vapor Density (air=1):</b> > air
<b>Physical state:</b> Liquid	<b>Percent Volatile by Weight:</b> 50%
<b>pH:</b> NA	<b>Volatile Organic Content:</b> 246.3 g/l
<b>Evaporation Rate:</b> 3.7	<b>Molecular Weight:</b> NA
<b>Boiling Point:</b> 187°F (86 °C)	<b>Average Carbon Number:</b> NA
<b>Melting Point/Freezing Point:</b> -90.5°C	<b>Viscosity @ 77°F:</b> NA
<b>Specific Gravity:</b> 0.8	
<b>Pour Point:</b> NA	
<b>Solubility in Water:</b> Negligible	
<b>Octanol / Water Coefficient:</b> Log K <sub>ow</sub> = NA	

## 10. STABILITY AND REACTIVITY INFORMATION

**Stability:** Stable

**Polymerization:** Will not occur.

**Chemical Incompatibilities:** Strong oxidizing agents, acids, bases.

**Conditions to Avoid:** Heat, sparks, and flames; ignition sources.

**Hazardous Decomposition Products:** Toxic gases or vapors such as carbon monoxide, carbon dioxide, or oxides of nitrogen may be released in a fire.

## 11. TOXICOLOGICAL INFORMATION (will only print available data)

**Primary Eye Effects:** Irritating

**Primary Skin Effects:** Irritating

**Dermal Sensitization:** Prolonged exposure may cause dermatitis

**Acute Inhalation Effects:** Product toxicity has not been determined. Following are the component data:

LC<sub>50</sub> Toluene: Rat >26,700 ppm 1 hour; Mouse 400 ppm 24 hours

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

LD<sub>50</sub> Heptane: Rat 28,710 mg/kg

**No other toxicological information available**

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** Not known

**Environmental Fate:** Not known

**Environmental Degradation:** Not known

**Soil Absorption/Mobility:** 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:** Absorb residue and dispose of according to local, state and Federal EPA regulation.

Empty container: may contain explosive vapors. Do not cut, puncture or weld on or nearby.

# » MATERIAL SAFETY DATA SHEET

## CARLISLE COATINGS & WATERPROOFING

### 14. TRANSPORTATION INFORMATION

#### US Department of Transportation (US DOT):

**Highway / Rail (non-bulk):** Resin solution, Class 3, UN 1866, PG II (contains heptane, toluene, naphtha)  
The DOT description is provided to assist the proper shipping classification of this product and may not be suitable for all shipping descriptions.

#### International Information:

**Vessel: IMDG Regulated:** Class 3.2

**Air: ICAO Regulated:** Class 3

No other information available

### 15. REGULATORY INFORMATION

#### EPA Regulations:

**RCRA Hazardous Waste Number (40 CFR 261.33):** Not listed

**RCRA Hazardous Waste Classification (40 CFR 261):** Not classified

#### TSCA (Toxic Substances Control Act) Status:

TSCA (United States) – The intentional ingredients of this product are listed.

**CERCLA Hazardous Substance RQ – 40 CFR 302.4 (a):** None listed

**CERCLA RQ – 40 CFR 302.4 (b)**

Materials with a “listed” RQ may be reportable as an “unlisted hazardous substance”. See 40 CFR 302.5 (b).

#### SARA 311/312 Codes:

Immediate (X) Delayed (X) Fire (X) Reactive ( ) Sudden Release of Pressure ( )

**SARA 313 Components (40 CFR 372.65):** Toluene – CAS No 108-88-3 – 5-10 percent

**SARA EHS (Extremely Hazardous Substance) (40 CFR 355):** Not listed, Threshold Planning Quantity (TPQ)

#### OSHA Regulations:

Air Contaminant (29 CFR 1910.1000, Table Z-1, Z-1-A): Not listed

OSHA Specifically Regulated Substance (29 CFR 1910): None listed

**EPA Accidental Release Prevention (40 CFR 68):** None listed

#### State Regulations:

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

**Delaware Air Quality Management List:** None listed

**Florida Toxic Substance:** The following components are listed as a toxic substance by the state of Florida:  
Heptane, Toluene

#### Massachusetts Hazardous Substances List:

Chemical Name	CAS #	Codes
Heptane	142-82-5	2,4,5,6
Toluene	108-88-3	2,4,5,6

**Michigan Critical Materials Registry:** None listed

# » MATERIAL SAFETY DATA SHEET

C A R L I S L E C O A T I N G S & W A T E R P R O O F I N G

## Minnesota Hazardous Substance:

Chemical Name	Codes	Hazards	Carcinogen?
Heptane	ANO	--	No
Toluene	ANO	--	No

**New Jersey RTK Label Information:** None listed

**New York List of Hazardous Substances:** None listed

## Pennsylvania RTK Label Information

Chemical Name	CAS #	Code
Heptane	142-82-5	--
Toluene	108-88-3	--

## Washington Air Contaminant:

TWA (ppm):	None listed
TWA (mg):	None listed
STEL (ppm):	None listed
STEL (mg):	None listed
Ceiling (ppm):	None listed
Ceiling (mg):	None listed
Skin:	None listed

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## 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:** 09/01/2010

#### Section

**Old Information:**

**New Information:**

**Prepared By:** R&D Department

**Date:** 09/28/2011

**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, CCWI Company 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.