



MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: CCW-704

Product Use: Mastic

Manufacturer/Supplier

Carlisle Coatings & Waterproofing Incorporated
8810 West 100th Street South, P.O. Box 1600
Sapulpa, OK 74067-1600

Internet Address: www.Carlisle-CCW.com

Fax Number: (918) 227-0603

Phone Numbers

Medical Emergency:

CHEMTREC(USA): (800) 424-9300

CHEMTREC(International): (703) 527-3887

MSDS Assistance: (918) 227-5435

Fax On Demand: NA

Technical Assistance: (918) 227-5435

Customer Service: (918) 227-4533

2. COMPONENT INFORMATION

| Component | CAS No. | Percent Range | Hazardous in Blend |
|---|------------|---------------|--------------------|
| Asphalt | 64742-93-4 | 40 - 60 | |
| Aromatic Hydrocarbons | 64742-95-6 | 10 - 20 | |
| Crystalline Silica (in organic and inorganic salts) | 14808-60-7 | 0.3 -0.4 | |

This product is hazardous according OSHA 29 CFR 1910.1200.

Hazards:

Flammable/Combustible X Acute Toxin X Chronic Toxin X Carcinogen X

Pressure X Reactive No Exposure Limit Target Organ Other

3. HAZARDS IDENTIFICATION

Emergency and Hazards Overview:

Mixture contains flammable components and the vapors may ignite explosively. Vapors are heavier than air and may travel to distance sources of ignition and flash back. Harmful if swallowed or inhaled. Overexposure to vapors may cause dizziness, headache or central nervous depression. May cause irritation to eyes, skin and respiratory tract.

Ratings

Health 2 Flammability 2 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 or left on the skin.

Inhalation: May cause irritation of the nose, throat, and respiratory tract. At very high concentrations, breathing vapors may cause dizziness, drowsiness, weakness, fatigue, nausea, headache, and unconsciousness.

Ingestion: Ingestion may cause symptoms similar to those of inhalation. Single dose oral toxicity is low. If a large amount is swallowed do not induce vomiting. If the individual is drowsy or unconscious, place on left side with the head down. Seek medical attention.

Medical Conditions Aggravated by Exposure: Prolonged skin contact with this product may defat skin leading to irritation or dermatitis resulting in itching, redness and rash. Over exposure may aggravate mild reversible liver effects, mild reversible kidney effects, blood abnormalities, cataracts.

4. FIRST AID INFORMATION

Eye Contact: Immediately flush with plenty of water for at least 15 minutes. Call a physician.

Skin Contact: Wash promptly with soap and water, waterless hand cream or abrasive soap. Clean under fingernails. See a physician if irritation develops.

Inhalation: Get fresh air if symptoms develop due to inhalation. Give oxygen if breathing is difficult. If not breathing give artificial respiration and get medical attention immediately.

Ingestion: If swallowed contact a physician immediately. Decision to induce vomiting should only be made by a physician. Never give anything by mouth to an unconscious person.

Notes to Physician: This product contains asphalt, aromatic hydrocarbons.

5. FIRE AND EXPLOSION INFORMATION

Flammable Properties

Flash Point: 108°F

Test Method: TCC

Flame extension: NA

Test Method: NA

Flammable Limits in Air

Upper Percent: 12.6

Lower Percent: 1.9

Autoignition Temperature: 880°F

Test Method: NA

NFPA Classification: H 2 F 2 R 0

Extinguishing Media: CO₂, regular foam or dry chemical.

Fire Fighting Measures

Special Fire Fighting Procedures and Equipment: Firemen must wear full-face air-supplied mask and full protective clothing. Containers should be kept cool with water spray. 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: Vapors may be ignited by heat or sparks. 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.

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

6. ACCIDENTAL RELEASE MEASURES

Personnel Safeguards: Immediately evacuate all non-essential personnel to safe areas. 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. 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. Use adequate ventilation to promote drying. Wash area with mild detergent and water.

7. HANDLING AND STORAGE INFORMATION

Handling: Avoid prolonged contact with the skin. Use solvent resistant gloves. Avoid rubbing eyes while handling. Use only in areas with adequate ventilation. Do not take internally. Keep out of reach of children. Avoid breathing vapors. Wash hands thoroughly after each use especially before eating or smoking.

Storage: Store in cool ventilated space away from direct sunlight. Keep away from heat, sparks, open flames, electrical equipment, welding torches, pilot lights, etc. Keep containers tightly closed and upright when not in use. Keep below 110°F.

Empty Container Warnings

Drums: Do not reuse empty drums or containers. 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 |
|-----------------------|------------|-------------------------|
| Asphalt | 64742-93-4 | 5 mg/m ³ TWA |
| Aromatic Hydrocarbons | 64742-95-6 | 50 ppm TWA |

Personal Protective Equipment

Eye/Face Protection: Wear safety goggles.

Skin Protection: Use solvent resistant rubber 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 and/or smoking.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--|--|
| Appearance: Black paste | Vapor Pressure: 3 mm Hg @ 20°C |
| Odor: Petroleum odor | |
| Physical state: paste | Vapor Density (air=1): 4.2 |
| pH: Not applicable | Percent Volatile by Volume: 10 – 20 |
| DOT Corrosivity: NA | Volatile Organic Content: 200 g/liter |
| Boiling Point: 308 to 355°F | Molecular Weight: NA |
| Melting Point: NA | Average Carbon Number: NA |
| Specific Gravity: 1.24 | 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 contact with heat, sparks, open flame and fire.

Incompatible Materials to Avoid: Strong oxidizers.

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: NA

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

LC₅₀
Cumene (a component in aromatic hydrocarbons):
Mouse 2,000 ppm 7 hr

Inhalation Sensitization: NA

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

LD₅₀

Cumene (a component in aromatic hydrocarbons):

Mouse 12,750 mg/kg

Rat 1,400 mg/kg

Mutagenicity: NA

Carcinogenicity: California Proposition 65 Chemicals lists crystalline silica as a cancer causing agent.
The filler may contains small amount of crystalline silica.

Reproductive Toxicity: NA

Teratogenicity: NA

Immunotoxicity: NA

Neurotoxicity: NA

Other:

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 aromatic hydrocarbons have evaporated.

14. TRANSPORTATION INFORMATION

U.S. Department of Transportation (DOT)

Highway / Rail (Bulk): Combustible liquid N.O.S.(contains heavy aromatic hydrocarbons) NA1993

Highway / Rail (Non-Bulk): PGIII, Combustible liquid N.O.S., NA1993

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 3.3 **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:

| Chemical | CAS Number | Percent in Product |
|-------------------------|-------------------|---------------------------|
| 1,2,4 -Trimethylbenzene | 95-63-6 | 4 – 8 |

Regulatory Lists Searched

Health & Safety: NA
Environmental: NA
International: NA
State: 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: Warning! This product contains substances known to the State of California to cause cancer.

Canadian WHMIS Classification

Class: B

Division: 3

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: R10, R65

Safety Phrases: S51, S24/25, S37/39, S62

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: 10/14/99

Section

Old Information:

New Information:

Prepared By: Paul Cheng **Date:** 10/30/00

Disclaimer of Warranty: The information contained herein is based upon data and information available to us, and reflects our best professional judgement. 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, Pennzoil Products 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.