



MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: CCW MiraDRI 860

Synonyms: Rubberized asphalt self-adhering sheet with film surface.

Manufacturer/Supplier

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

Internet Address: www.Carlisle-CCW.com

Fax Number: (972) 442-0076

Phone Numbers

Medical Emergency:

CHEMTREC(USA): (800) 424-930

CHEMTREC(International)::

Fax Number: (972) 442-0076

MSDS Assistance: (972) 442-6545

Fax On Demand: NA

2. COMPONENT INFORMATION

Component	CAS No.	Percent Range	Hazardous in Blend
Petroleum Asphalt	8052-42-4	60-80	
Rubber Copolymer	9003-55-8	4-20	
Hydrotreated Heavy Naphthenic Distillate	64742-52-5	<20	

This product is hazardous according OSHA 29 CFR 1910.1200.

Hazards:

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

2A. OTHER INGREDIENTS Greater than 3%

3. HAZARDS IDENTIFICATION

Emergency and Hazards Overview:

Repeated skin contact with rubberized asphalt may result in slight irritation. Prolonged skin contact with process oil in the rubberized asphalt may cause an increased risk of skin cancer, liver damage and reproduction effects based on laboratory animals tests. Skin cleansing studies with aromatic oils show that the toxic effects are not likely to occur to humans if good personal hygiene practices are used. May be harmful if swallowed. Read and understand all health and safety information on the product label and Material Safety Data Sheet before use.

Ratings

Health	2	Flamability	1	Reactivity	0
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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 on prolonged or repeated contact.

Inhalation: Inhalation is unlikely due to the nature of this product.

Ingestion: There are no known health effects due to ingestion. Ingestion is unlikely due to the nature of this product.

Medical Conditions Aggravated by Exposure: Prolonged contact with oil residues in this product may produce effects including skin cancer.

4. FIRST AID INFORMATION

Eye Contact: Flush with water for 15 minutes. Get medical attention immediately.

Skin Contact: Wipe off and wash skin with soap and water. Promptly remove contaminated clothing and wash before reuse. See a physician if irritation develops.

Inhalation: No known adverse effect unless heated.

Ingestion: Due to the nature of this product ingestion is unlikely. Consult a physician immediately.

Notes to Physician: This product contains asphalt and mineral process oil.

5. FIRE AND EXPLOSION INFORMATION

Flammable Properties

Flash Point: >450F	Test Method: COC
Flame Extension: NA	Test Method: NA
Flammable Limits in Air	
Upper Percent: NA	
Lower Percent: NA	
Auto ignition Temperature: NA	Test Method: NA

NFPA Classification: H 2 F 1 R 0

Extinguishing Media: CO₂, foam, dry chemical or water spray.

Fire Fighting Measures

Special Fire Fighting Procedures and Equipment: Wear NIOSH/MSHA approved respirators, or self-contained breathing apparatus(SCBA).

Unusual Fire and Explosion Conditions: None known.

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

6. ACCIDENTAL RELEASE MEASURES

Personnel Safeguards: Evacuate non-essential personnel to safe areas. Clean-up responders should wear proper protective clothing and gloves before entering the affected area.

Regulatory Notifications: Certain component 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: Observe above precautions, thoroughly clean the area and remove materials for disposal.



7. HANDLING AND STORAGE INFORMATION

Handling: Avoid prolonged contact with skin. Use protective gloves. Avoid rubbing eyes while handling.

Storage: Store in dry, cool environment. Keep containers closed when not in use.

Empty Container Warnings

Drums: NA

Plastic: NA

8. EXPOSURE CONTROLS / PERSONAL PROTECTION INFORMATION

Exposure Limits and Guidelines

Component	CAS No.	Exposure Limit
Asphalt	8052-42-4	5 mg/m ³ TWA
Hydrotreated Naphthenic Distillate	64742-52-5	5 mg/m ³ TWA, 10 mg/m ³ ACGIH

Personal Protective Equipment

Eye/Face Protection: Wear safety goggles during hot melt application.

Skin Protection: Use protective insulation gloves during hot melt application.

Respiratory Protection: Provide adequate ventilation to maintain vapors below PEL/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. Due to the nature of this product ingestion is unlikely. Use good personal hygiene practices to avoid incidental ingestion.

Engineering Controls / Work Practices

Ventilation: If material is heated or otherwise made airborne, provide local exhaust or area ventilation to maintain concentration of vapors below 5 mg/m³ PEL/TWA.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Black rubberized asphalt with film backing	Vapor Pressure: NA
Odor: Slight petroleum odor	Vapor Density (air=1): NA
pH: NA	Volatile by Volume: Negligible
DOT Corrosivity: NA	Volatile Organic Content: Negligible
Boiling Point: NA	Molecular Weight: NA
Melting Point: 190 to 264F	Average Carbon Number: NA
Specific Gravity: 1.0-1.2	Viscosity @ 77F: Solid
Pour Point: >300F	
Solubility in Water: Negligible	
Octanol/Water Coefficient: Log Kow = NA	



10. STABILITY AND REACTIVITY INFORMATION

Chemical Stability: Stable under normal condition.

Conditions to Avoid: Avoid extreme heat, fire and temperature.

Incompatible Materials to Avoid: Avoid strong acids, strong oxidizers.

11. TOXICOLOGICAL INFORMATION (will only print available data)

Primary Eye Irritation: Irritating

Primary Skin Irritation: May be irritating

Acute Dermal Toxicity: NA

Subacute Dermal Toxicity: NA

Dermal Sensitization: NA

Inhalation Toxicity: NA

Inhalation Sensitization: NA

Oral Toxicity: Mineral oil mist, LD₅₀(mouse): 22,000 mg/kg

Mutagenicity: NA

Carcinogenicity: Prolonged >5mg/m³ oil mist exposure may result in a cancer risk. Due to the nature of the product it is unlikely that the CaCO₃ will be airborne.

Reproductive Toxicity: NA

Teratogenicity: NA

Immunotoxicity: NA

Neurotoxicity: 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 in accordance with all applicable regulations.

14. TRANSPORTATION INFORMATION

U.S. Department of Transportation (DOT)

Highway / Rail (Bulk): Not classified

Highway / Rail (Non-Bulk): Not classified

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: Not classified **IMDG Not Regulated**

Air: ICAO Regulated: Not classified **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 no chemical listed in Sara, Title III, Section 313 Chemicals:

Regulatory Lists Searched

This product contains a mixture of one or more components found on the following State List at or above OSHA de minimus quantities:

- Health & Safety:** NA
- Environmental:** NA
- International:** NA
- State:** FL, MA, MN, PA, RI
- National Inventories:** NA

SARA 311 / 312 Categories (For the chemicals above)

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

California Proposition 65 Information: Warning! This product contains substances known to the state of California to cause cancer.

Canadian WHMIS Classification

Class: Class B

Division: 4

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:

Toxic

Risk Phrases: R45

Safety Phrases: S38, S45, S53

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: 06/30/10

Section

Old Information: 16-part version



New Information: no changes

Prepared By: Alvin Binkley **Date:** 03/01/11

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, Carlisle Coating and Waterproofing Inc. 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.