

## FLEXX-SEAL

Material Safety Data Sheet

### Section 1 • IDENTIFIERS

Product Name:	Flexx-Seal
Intended Use:	Construction Waterproofing Material
HMIS Hazard Rating:	Health 1 Fire 1 Reactivity 0
Effective Date:	10/17/02

### Section 2 • COMPOSITION

Hazardous Component	CAS#	Amount	Exposure Limit
Asphalt (petroleum; bitumen)	8052-42-4	50–80%	0.5 mg/m <sup>3</sup> TLV-TWA
Calcium Carbonate	1317-65-3	10–20%	5 mg/m <sup>3</sup> PEL-TWA (respirable fraction) 10 mg/m <sup>3</sup> TLV-TWA

Non-Hazardous Components >1%: Resins and Polymers, 10–30%

### Section 3 • HAZARDS IDENTIFICATION

#### Emergency Overview

This product is a black tape with no odor. Product is not flammable but will burn under fire conditions. May cause mild eye and skin irritation.

### Section 4 • FIRST AID MEASURES

Eye:	First check victim for contact lenses and remove if present. Flush victim's eyes with large quantities of water, holding the eyelids apart. Get medical attention if irritation persists.
Skin:	Remove contaminated clothing. Wash skin thoroughly with soap and water. If rash or irritation develop, get medical attention.
Ingestion:	In conscious, rinse mouth with water. Never give anything by mouth to an unconscious or convulsing person. Get medical attention.
Inhalation:	If symptoms of exposure develop, remove victim to fresh air. If breathing is difficult or symptoms persist, get immediate medical attention.

### Section 5 • FIRE-FIGHTING MEASURES

Flashpoint:	>320°F
Flammability Limits:	LEL Not applicable UEL Not applicable
Extinguishing Media:	Use foam or dry chemical to extinguish fire. Use fog nozzles if water is used. Water streams may cause violent eruptions and spread the burning of asphalt. Use water to cool fire-exposed containers and structures.
Special Fire-Fighting Procedures:	Firefighters should wear positive-pressure, self-contained breathing apparatus and full protective clothing. Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous Combustion Products:	Carbon monoxide, sulfur oxides, hydrogen sulfide, acrolein, aldehydes, ketones, and unidentified organic compounds may be formed on combustion.

### Section 6 • ACCIDENTAL RELEASE MEASURES

Pick up and place into an appropriate container for disposal. If product becomes molten, allow product to cool before picking or scraping up.

### Section 7 • HANDLING AND STORAGE

Handling:	Avoid contact with the eyes and skin. This product is not intended to be heated, but if product is heated, provide adequate ventilation and avoid breathing vapors and mists. Wash with soap and water after use.
Storage:	Store in a cool, well-ventilated area away from excessive heat and sources of ignition.

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**Section 8 • EXPOSURE CONTROLS/  
PERSONAL PROTECTION**

Exposure Guidelines:	Refer to Section 2.
Engineering Controls:	General ventilation should be adequate for normal use. For operations where the TLV may be exceeded, mechanical ventilation such as local exhaust may be needed to maintain exposure levels below applicable limits.
Respiratory Protection:	None needed under ambient conditions. For situations where the product is heated, hydrogen sulfide may be released. In such conditions, a NIOSH-approved, positive-pressure, self-contained breathing apparatus is recommended. Gas masks or other air-purifying respirators are not recommended for hydrogen sulfide due to its poor odor-warning properties. Equipment selection depends on containment type and concentration. Select in accordance with 29 CFR 1910.134 and good industrial hygiene practice. For fire-fighting, use self-contained breathing apparatus.
Skin Protection Requirements:	Avoid skin contact. Wear appropriate impervious gloves.
Eye Protection:	Safety glasses or goggles should be worn where contact is possible.
Other:	Wear long-sleeved shirt and long pants to avoid skin contact. Wash thoroughly after handling.

**Section 9 • PHYSICAL AND CHEMICAL  
PROPERTIES**

Appearance and Odor:	Black tape with no odor.
Physical State:	Solid
Solubility in Water:	Insoluble
Bulk Density:	15.723 pounds/gallon
Specific Gravity:	1.883
Melting Point:	220°F, 104°C (Softening Point)

**Section 10 • STABILITY AND  
REACTIVITY**

Stability:	Stable under normal storage and handling conditions.
Incompatibility:	Strong oxidizers. Avoid water if product is molten.
Hazardous Decomposition Products:	Carbon monoxide, sulfur oxides, hydrogen sulfide, acrolein, aldehydes, ketones, and unidentified organic compounds.
Hazardous Polymerization:	Will not occur.

**Section 11 • TOXICOLOGICAL  
INFORMATION****Health Hazards**

Ingestion:	No adverse effects are expected from normal use. Swallowing may cause gastrointestinal irritation, nausea, vomiting, and diarrhea.
Inhalation:	No adverse effects expected at ambient temperatures. Vapors released from heating product may cause respiratory irritation. At elevated temperatures hydrogen sulfide may be released. The release of hydrogen sulfide gas in various concentrations may cause irritation of the eyes and respiratory tract, headache, dizziness, nausea, and drowsiness. Exposure to high concentrations of hydrogen sulfide can cause respiratory arrest and death.
Eye:	May cause irritation with redness, tearing, and blurred vision. Contact with product at elevated temperatures may cause thermal burns.
Skin:	May cause irritation, defatting of the skin, and dermatitis. Contact with product at elevated temperatures may cause thermal burns.
Sensitization:	This product is not expected to cause sensitization.
Chronic/ Carcinogenicity:	No adverse effects expected at ambient temperatures. Prolonged inhalation of asphalt smoke has been shown to cause bronchitis, pneumonitis, and abscess formation in laboratory animals. Asphalt fume condensates have been shown to cause tumorigenic responses when repeatedly applied to the skin of laboratory animals. Prolonged inhalation of talc dust may cause lung damage (pulmonary fibrosis); however, the talc in this product is bound in a polymer matrix and dust exposure would not be expected. Asphalt (petroleum, bitumen) is listed by IARC as "Possibly Carcinogenic to Humans", Group 2B.
Mutagenicity:	No adverse effects from available data.
Synergistic Products:	None specifically known.
Medical Conditions Aggravated by Exposure:	Employees with pre-existing skin and respiratory disorders may be at increased risk from exposure.
Acute Toxicity Values:	<b>Asphalt</b> Oral Rat LD50 >5.0 g/kg Skin Rabbit LD50 >2.0 g/kg Skin Rabbit LD50 14100 uL/kg <b>Calcium Carbonate</b> No acute toxicity data available.

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**Section 12 • ECOLOGICAL INFORMATION**

No ecotoxicity data is available for this product at this time.

**Section 13 • DISPOSAL CONSIDERATIONS**

Dispose in accordance with local, state, and federal environmental regulations.

**Section 14 • TRANSPORTATION INFORMATION****DOT Hazardous Materials Description**

Proper

Shipping Name: Not Regulated

UN Number: None

Hazard Class/  
Packing Group: None

Labels

Required: None

**Section 15 • REGULATORY INFORMATION**

CERCLA/

Superfund: This product is not subject to CERCLA reporting requirements.

SARA Hazard  
Category

(311/312): Acute Health, Chronic Health

SARA 313

Information: This product contains the following chemicals subject to Annual Release Reporting Requirements under SARA Title III, Section 313 (40 CFR 372): None.

EPA TSCA

Inventory: All of the ingredients in this product are listed on the EPA TSCA Inventory

California

Proposition 65: This product contains the following chemicals known to the State of California to cause cancer: None.

Canada:

This product has been classified under the CPR and this MSDS discloses information elements required by the CPR.

Canadian  
WHMIS

Classification: Not a controlled product (manufactured article).

Canadian

CEPA: All the components of this product are listed on the Canadian DSL.

**Other Information**

NEPA Rating: Health=1 Fire=1 Reactivity=0

HMIS Rating: Health=1\* Fire=1 Reactivity=0

Revision Summary: Section 1: Product Name

**Notice**

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This information relates only to the product designated herein and does not relate to its use in combination with any other material or process.