

# MATERIAL SAFETY DATA SHEET

(In compliance with OSHA Regulation 29 CFR 1910.1200 - Hazard Communication)

<b>IDENTITY:</b> CrackMaster 3405 Product No. M1060L
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## *SECTION I - Manufacturer / Product Information*

<b>Manufacturer's Name:</b> SealMaster Industries, Inc.	<b>Emergency Telephone No.:</b> Chemtrec: 1-800-424-9300
<b>Address:</b> 2520 South Campbell Street Sandusky, Ohio 44870	<b>Telephone Number for Information:</b> 1-419-626-4375
<b>Date Prepared:</b> March 21, 1996	

## *SECTION II - Hazardous Ingredients / Identity Information*

<b>Hazardous Components: Specific Chemical Identity; Common Name, CAS No.</b>	<b>Exposure Limits</b>		<b>Other Limits Recommend.</b>	<b>% (Optional)</b>
	<b>OSHA PEL -(1)</b>	<b>ACGIH TLV -(2)</b>		
Asphalt Cement CAS #8052-42-4		5 mg/m <sup>3</sup>		40-80

(\*) Indicate toxic chemical subject to the reporting requirement of section 313 of SARA Title III and 40 CFR 372 (Code of Federal Regulations). (A chemical or chemical category listed by the EPA is subject to toxic chemical release reporting under the Emergency Planning and Community Right-To-Know Act of 1986). There are no components in the formulation that are presently subject to this reporting requirement.

(1) (OSHA Permissible Exposure Limit) - These limits express the permissible maximum amount of a chemical to which a person may be exposed. The concentrations listed refer to airborne exposure, as might occur (via mist), which is unlikely to occur with this product in view of its properties and intended use.

(2) (American Conference of Governmental Industrial Hygienists' Threshold Limit Value) - This value is expressed in parts per million. The TLV is the concentration of substance in the air that can be breathed for five consecutive eight hour workdays (40-hour work week) by most people, without harmful effects.

## *SECTION III - Physical / Chemical Characteristics*

<b>Boiling Point:</b> 750 <sup>o</sup> Fahrenheit
<b>Specific Gravity (Water = 1):</b> 1.05-1.25
<b>Vapor Pressure (mm Hg)</b> Is nearly equal to that of water.
<b>Melting Point:</b> 250 <sup>o</sup> Fahrenheit
<b>Vapor Density:</b> Not applicable
<b>Evaporation Rate (Butyl Acetate = 1):</b> Not applicable
<b>Solubility in Water:</b> Negligible
<b>Appearance and odor:</b> Black semi-solid with faint petroleum odor.

**SECTION IV - Fire and Explosion Hazard Data**

**HMIS Rating:** 0

**Flash Point (Method Used):** 450<sup>o</sup> Fahrenheit

**Flammable Limits in Air:** LEL: 1.0 UEL: 6.0

**Extinguishing Media:** Water spray, foam, dry chemical, carbon dioxide.

**Special Fire Fighting Methods:** Full protective equipment, including self-contained breathing apparatus, to be worn. Water should be used to cool closed containers to prevent explosion. Avoid using solid water stream. Water spray and foam must be applied carefully to avoid frothing.

**Unusual Fire & Explosion Hazards:** Not Applicable.

**SECTION V - Reactivity Data**

**HMIS Rating:** 0

**Stability:** Stable

**Conditions to Avoid:** Keep away from open flames, keep away from strong oxidizers, avoid extreme temperatures..

**Hazardous Decomposition or Byproducts:** Combustion may form hydrogen sulfide (see note in Section VI - Health Hazards), carbon dioxide, carbon monoxide, oxides of nitrogen, oxides of sulfur, and other hydrocarbons.

**Hazardous Polymerization:** Will not occur.

**SECTION VI - Health Hazard Data**

**HMIS Rating:** 1

**Primary Routes of Exposure:**

**Inhalation:** Yes

**Eye Contact:** Yes

**Skin Contact:** Yes

**Ingestion:** Yes

**Health Hazards ( Acute & Chronic):** (Acute): Irritation to eyes, skin, lungs.  
(Chronic): Dermatitis possible.

**Signs and Symptoms of Exposure:**

**Inhalation:** The vapors may cause irritation to the lungs after repeated exposure.

**Eye:** Direct contact to eyes may cause permanent eye damage. Vapors may cause irritation to the eyes.

**Skin:** May be a skin irritant to some people.

**Ingestion:** Stomach irritation, nausea, and vomiting

**Medical Conditions Generally Aggravated by Exposure:** Persons with a skin rash, irritation, or other skin disorders should not let emulsified asphalt contact afflicted areas.

**Carcinogenicity: National Toxicology Program (NTP):** Not determined

**International Agency for Research on Cancer (IARC) Monographs:** Not determined

**OSHA Regulated:** Not determined

**Emergency and First Aid Procedures:**

**Inhalation:** Remove to fresh air. If breathing is difficult, get medical attention. If breathing stops, begin artificial resuscitation and SEEK IMMEDIATE EMERGENCY MEDICAL TREATMENT.

**Ingestion:** If swallowed, do not induce vomiting. If vomiting begin, lower person's head in an effort to prevent vomitus from entering the lungs. SEEK IMMEDIATE MEDICAL TREATMENT.

**Skin Contact:** Remove contaminated clothing as soon as possible. Wash exposed skin thoroughly with waterless hand cleaner and soap and water. If irritation develops, consult of physician. In cases suspecting burns, do not attempt to remove clothing and SEEK EMERGENCY MEDICAL TREATMENT.

**Eye Contact:** Immediately flush eyes with plenty of water for at least 5 minutes and CALL A PHYSICIAN.

**NOTE:** Hydrogen sulfide gas (H<sub>2</sub>S) is toxic by inhalation. (50-100 ppm): eye and respirator irritation, (250-600 ppm): headaches, (1000 ppm): unconsciousness and death.

**SECTION VII - Precautions for Safe Handling and Use**

**Steps To Be Taken In Case Material Is Released Or Spilled:** Contain spill immediately in smallest area possible using soil, fly ash, or other fine, dry aggregates. Recover as much of the product as possible by mechanical means such as pumping, vacuuming, or shoveling. Residual materials should be recovered by using absorbent materials. Non-recoverable product and contaminated soils and other materials should be picked up and placed in containers for ultimate disposal. Avoid washing, draining, or directing materials to storm or sanitary sewers, rivers, streams, lakes, and other bodies of water.

**Waste Disposal Method:** Treatment, storage, transportation and disposal must be in accordance with applicable federal, state, and local regulations. Recycle as much of the recoverable products as possible.

**Precautions To Be Taken In Handling And Storing:** Keep from freezing, or extreme heat.

**Other Precautions:** Do not use when rain is imminent or forecast to prevent contamination of runoff water.

**SECTION VIII - Control Measures**

**Respiratory Protection (Specify Type):** None required for normal conditions of use. If operating conditions cause a mist, use a NIOSH / OSHA approved dust/mist respirator.

**Ventilation:**

**Local Exhaust:** If used in confined spaces, and mist is generated, use mechanical ventilation to reduce mist concentrations below PEL.

**Protective Gloves:** The use of chemically resistant NBR or neoprene gloves is recommended.

**Eye Protection:** Chemical safety goggles must be worn at all times when working with emulsified asphalt

**Other Protective Clothing or Equipment:** Long sleeves and long pants should be worn.

**Work / Hygienic Practices:** Skin contact should be minimized.

**SECTION IX - Disclaimer**

All information, recommendations, and suggestions concerning this product are based upon tests, literature references, and/or calculations, believed to be reliable. The manufacturer makes no guarantee, expressed or implied, as to the affect of use, or the safety and toxicity of the product. The information contained in this sheet cannot be taken as the sum total of all protective measures to be taken.