

**SECTION 1. PRODUCT IDENTIFICATION**

**Product identifier used on label** **Type S Slurry Seal**

**Material Uses** Asphalt Sealer  
**Product Type** Liquid until dry, then solid  
**Chemical name** Hydrocarbon Emulsion  
**Product Class** Polymer Modified Asphalt Emulsion

Recommended use and restrictions:

**Identified uses** Designed for application as a Seal Coat (protective top coating) of asphaltic concrete pavement assets used as playgrounds, parking lots, industrial warehouse floors, driveways, surface streets and highways.

**Uses advised against** Not applicable

**Reason** Not applicable

**Supplier/Manufacturer** Carbonyte Systems, Inc.  
 3 Wayne Court Suite A, Sacramento, CA 95829  
 Phone: 916-387-0316 Fax: 916-388-1359 www.carbonyte.com

**Emergency Information** CHEMTREC 800-424-9300

**SECTION 2. HAZARDOUS IDENTIFICATION**

**CAS# Mixture** **WARNING**



HMIS  
 Health 1  
 Flammability 0  
 Reactivity 0  
 Personal Protection Equipment A

**Hazard Statement:** Possible Irritant to skin, mucous membranes, airways, lungs, eyes, stomach. No target organs affected.

**Classification:** **RESPIRATORY SENSITIZER: Category 1B** - Dust from cured coating may provoke asthmatic response in persons with asthma or those who are sensitive to airway irritants

**Health Risks & Symptoms of Exposure:**

**SKIN & EYE:** Irritant to eyes and to the skin of some individuals. Wash skin with plenty of water; if splashed in the eye, flush with water for 15 minutes.

**INGESTION:** Ingestion of this material is not expected to occur through normal use. Accidental ingestion of more than one ounce may cause irritation. Contact a physician should ingestion occur.

**INHALATION:** Irritant to mucous membranes.

**ACUTE & CHRONIC Health Hazards:** Product may contain trace amounts of vinyl acetate which has been shown to cause tumors of the respiratory tract of laboratory animals. There is no evidence that it has caused cancer in humans.

**Target Organs Affected:** Upper respiratory tract.

**Substances Listed in State of California Proposition 65:** Petroleum asphalt may contain trace amounts of benzene (CAS # 71432). Contains trace amounts of residual acrylate an styrene monomers and <0.1% residual acrylamide monomer and formaldehyde. Contains ammonia <0.1% max.

**SECTION 3: Composition/Ingredient Information**

INGREDIENTS *	CAS NUMBER	% By Weight
<i>Petroleum Asphalt</i>	8052-42-4	<40
<i>Co-Polymer Latex</i>	Proprietary	<15
<i>Synthetic Rubber</i>	Proprietary	<30
<i>Inorganic Fillers</i>	Proprietary	<55
<i>Surfactant</i>	Proprietary	<2

\* The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a Trade Secret.

**SECTION 4: First Aid Measures**

**Inhalation** If inhalation of vapors causes irritation of respiratory tract, remove victim to fresh air and seek medical advice.

**Skin Contact** In the event of skin contact, wash skin with water and soap.

**Eye Contact** If splashed in eye, flush 15 minutes in eyewash and seek medical advice.

**Swallowed** If swallowed into stomach DO NOT induce vomiting or aspiration. Call a physician

**Most important symptoms and effects, both acute and delayed, see SECTION 2.**

**Indication of any immediate medical attention and special treatments required NOT APPLICABLE.**

**SECTION 5: Fire-Fighting Measures**

**Flammability Classification:** OSHA: Not Regulated

**Flash Point:** None

**Extinguishing Media:** Dry Chemical & CO2 for dry polymer.

**Unusual Fire & Explosion Hazards:** None

**Special Fire Fighting Procedures:** Dried polymer burns under influence of outside flame source but will self-extinguish at temps below ~80°F. By-products of combustion may include, carbon monoxide, traces of oxides of nitrogen, aliphatic and aromatic hydrocarbons, hydrogen bromide, water, and traces of styrene acrylic monomer. By-products of pyrolysis may include acetic acid, acetaldehyde and acrolein. Wear positive pressure, self-contained breathing apparatus (SCBA) during fire or cleanup.

**SECTION 6: Accidental Release Measures**

Absorb spill with appropriate absorbent material such as sand, sawdust, clays, etc. Dike and contain spills; transfer liquid to containers for recovery or disposal. Do not dump in sewers, on ground, or into any body of water.

**SECTION 7: Handling and Storage**

This product is stable under normal use and storage conditions. Keep out of reach of children. Recommend storage at temperatures above 32°F - 100°F (0 - 38°C). Use with adequate ventilation.

**SECTION 8: Exposure Control/Personal Protection**

Occupational Exposure Limits	Ingredient Name	ACGIH TLV TWA STEL	OSHA PEL
	Petroleum Asphalt	None	5 mg/m
	Co-Polymer Latex	None established	N/A
	Synthetic Rubber	None	N/A
	Inorganic Fillers	None	N/A
	Surfactant	None	N/A

**Respiratory Protection:** Not required for outdoor application. If odors become noticeable or respiratory irritation occurs during application use NIOSH/MSHA approved respirator for organic vapors, at employee discretion.

**Ventilation:** Ensure adequate supply of fresh air at all times. If buildup of vapor causes irritation, use mechanical ventilation sufficient to eliminate the vapor which causes the irritation.

**Protective Gloves:** Nitrile rubber (Buna N) if required to prevent repeated or prolonged skin contact.

**Eye Protection:** Wear chemical goggles at all times when handling this product.

**Other Protective Clothing or Equipment:** Wear approved respirator, gloves, hat, shoes, and long-sleeved clothing to prevent contact with the material.

**SECTION 9: Physical & Chemical Properties**

<b>Ingredient Name</b>	<b>Vapor Pressure</b>	<b>Boiling Point:</b>	~100°C	<b>Density:</b>	9.3 - 12.5 lbs./gal
<i>Petroleum Asphalt</i>	<1mm Hg@20	<b>Evaporation Rate:</b>	Of Water	<b>pH:</b>	7 -10
<i>Co-Polymer Latex</i>	of water	<b>Solubility in Water:</b>	Miscible	<b>SP. GR.</b>	1.2 – 1.5
<i>Synthetic Rubber</i>	n/a	<b>% Volatile by Volume:</b>	12-50%	<b>V.O.C.:</b>	<10 grams / litre
<i>Inorganic Fillers</i>	n/a	<b>Vapor Density:</b>	Heavier than air		
<i>Surfactant</i>	n/a	<b>Appearance/Odor:</b>	Various colors, flowable liquid, pleasant sweet odor		

**SECTION 10: Stability & Reactivity**

**Stability:**  Stable  Unstable  
**Hazardous Polymerization:**  Will Not Occur  May Occur  
**Hazardous Decomposition Products:** None Known  
**Incompatibility:** Product will react violently with any water sensitive material such as sulfuric acid or alkali materials such as sodium or metal hydrides. May react with strong oxidizing agents such as hydrogen peroxide or permanganates resulting in intense heat, boiling, flame development, explosion or toxic gas generation.  
**Conditions to Avoid:** Do not store at temperatures below 0°F or above 100°F

**SECTION 11: Toxicological Information**

**Carcinogenicity:** NTP? NO  
**IARC** MONOGRAPHS? NO  
**OSHA** REG.? NO

**SECTION 12: Ecological Information**

Do not dump in sewers, on ground, or into any body of water.

**SECTION 13: Disposal Considerations**

**Waste Disposal Method:** Dispose of in accordance with prescribed federal, state, and local regulations.

**SECTION 14: Transport Information**

**DOT:** Not Regulated

**SECTION 15: Regulatory Information**

U.S. Federal Regulations 311/312 Hazard Categories:

**Fire Hazard:** NO **Reactivity Hazard:** NO **Delayed Hazard:** NO  
**Pressure Hazard:** NO **Immediate Hazard:** NO

**TSCA:** Ingredients in this product are certified for inclusion in the Toxic Substances Control Act of inventory of chemical substances.

**OSHA:** Product contains material as defined by 29CFR Paragraph 1910, 1200. Components of product are not listed by the National Toxicology Program, the International Agency for Research on Cancer, nor the Registry of Toxic Effects of Chemical Substances (1981-82) as a carcinogen.

**SARA Title III:** Product contains the following listed toxic chemicals which are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA Title III) and 40 CFR, Part 372.

Listed Toxic Chemical  
None

CAS #  
N/A

Max % by Wt.  
N/A

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**SECTION 16: Other Information****NFPA Hazard Classification**

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

**HMIS Hazard Classification**

**Health:** 1      **Flammability:** 0      **Physical Hazard:** 0      **Personal Protection:** None

Hazardous Material Identification System (HMIS<sup>®</sup>III) hazard ratings are designed to inform employees of chemical hazards in the workplace. These ratings are based on the inherent properties of the material under expected conditions of normal use and are not intended for use in emergency situations. HMIS<sup>®</sup>III ratings are to be used with a fully implemented HMIS<sup>®</sup>III program. HMIS<sup>®</sup> is a registered mark of the American Coatings Association (ACA).

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