

MATERIAL SAFETY DATA SHEET

MANUFACTURER:
Carbynte Systems, Inc.
3 Wayne Court Suite A
Sacramento, CA. 95829

****HMIS:** Health -1
Flammability -0
Reactivity -0
Personal Pro. Equip. -A

Emergency/Information Phone:
CHEMTREC 800-424-9300

*Hazardous Materials Identification System
adopted by the National Paints & Coatings
Association (NPCA)

Date of Preparation: October 01, 2012

SECTION I. PRODUCT IDENTIFICATION

PRODUCT: Hydrocarbon Emulsion
PRODUCT CODE: **Type S Slurry Seal**
PRODUCT CLASS: Polymer Modified Asphalt Emulsion CAS# : Mixture

SECTION II. HAZARDOUS INGREDIENTS

INGREDIENTS CAS NUMBER	%	OCCUPATIONAL ACGIH TLV		EXPOSURE LIMITS OSHA PEL	VAPOR PRESSURE
		TWA	STEL		
Petroleum Asphalt CAS# 8052-42-4	< 40		None	5 mg/m	< 1 mm Hg @ 20
Co-Polymer Latex CAS # Proprietary	<15		None Established		of water
Synthetic Rubber CAS # Proprietary	< 30		None		n/a
Inorganic Fillers CAS # Proprietary	< 55		None		n.a.
Surfactant CAS # Proprietary	< 2		None		n.a.

SECTION III. PHYSICAL DATA

BOILING POINT: ~100 C
VAPOR DENSITY: X Heavier than air Lighter than air
EVAPORATION RATE: Of Water
% VOLATILE BY VOL: 12-50% **DENSITY:** 9.3 - 12.5 lbs./gal. **pH:** 7 -10 **SP. GR.** 1.2 – 1.5
APPEARANCE/ODOR: Various colors, flowable liquid, pleasant sweet odor
SOLUBILITY IN WATER: Miscible **V.O.C.:** <10 grams / litre

SECTION IV. FIRE AND EXPLOSION DATA

FLAMMABILITY CLASSIFICATION: OSHA: Not Regulated
FLASH POINT: None
EXTINGUISHING MEDIA: Dry Chemical & CO₂; for dry polymer.
UNUSUAL FIRE AND EXPLOSION HAZARDS: None
SPECIAL FIRE FIGHTING PROCEDURES: Dried polymer burns under influence of outside flame source but will self-extinguish at temperatures 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, acrolein, and acetaldehyde. Wear positive pressure, self-contained breathing apparatus (SCBA) during fire or cleanup.

SECTION V. REACTIVITY DATA

STABILITY: Unstable X Stable
HAZARDOUS POLYMERIZATION: May Occur X Will Not 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 or above 100F

SECTION VI. HEALTH HAZARD DATA

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: Irritant to mucous membranes. May provoke asthmatic response in persons with asthma who are sensitive to airway irritants.

SKIN & EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE: 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 HEALTH RISKS AND SYMPTOMS OF EXPOSURE: 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.

ACUTE AND 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.

CARCINOGENICITY: NTP? NO IARC MONOGRAPHS? NO OSHA REG.? NO

SUBSTANCES LISTED IN STATE OF CALIFORNIA PROP. 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.

EMERGENCY AND FIRST AID PROCEDURES: If inhalation of vapors causes irritation of respiratory tract, remove victim to fresh air and seek medical advice. In the event of skin contact wash skin with water and soap. If splashed in eye, flush 15 minutes in eyewash and seek medical advice .If swallowed into stomach DO NOT induce vomiting or aspiration. Call a physician.

SECTION VII. PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: 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.

WASTE DISPOSAL METHOD: Dispose of in accordance with prescribed federal, state, and local regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: This product is stable under normal use and storage conditions. Keep out of reach of children. Recommend storage at temperatures above 0 and below 100 F. Use with adequate ventilation.

SECTION VIII: CONTROL MEASURES

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 IX: SPECIAL PRECAUTIONS

Precautionary Statements: None

Other Handling and Storage Requirements: None

SECTION X: ADDITIONAL REGULATORY CONCERNS

DOT: Not Regulated

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.

<u>Listed Toxic Chemical</u>	<u>CAS #</u>	<u>Max % by Wt.</u>
None	N/A	N/A

For technical information regarding performance of this product, call **Carbonyte Systems, Inc. at (916) 387-0316 or Fax (916)388-1359**

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