

MATERIAL SAFETY DATA SHEET

MANUFACTURER:**Carbonyte Systems, Inc.**

(aka) Rayner Protective Materials, Inc.

9390 Elder Creek Rd.

Sacramento, CA. 95829

Emergency/Information Phone:

CHEMTREC 800-424-9300

***HMIS:**Health - 1
Flammability 0
Reactivity 0
Pers. Pro. Equip. - A**Hazardous Materials Identification System
adopted by the National Paints & Coatings
Association (NPCA)

Date of Preparation: November 1, 1998

SECTION I. PRODUCT IDENTIFICATION

PRODUCT: Mineral Reinforced Inorganic Polymer

PRODUCT CODE: **Carbonyte Surfacer 60; Carbonyte Surfacer 70; Road Surfacer; SteelGuard 60; SteelGuard 70**

PRODUCT CLASS: Asphalt and Pavement Maintenance Coatings & Adhesives CAS# : Mixture

SECTION II. HAZARDOUS INGREDIENTS

| INGREDIENTS | | OCCUPATIONAL ACGIH TLV | | EXPOSURE LIMITS | |
|--------------------|------|------------------------|------|-----------------|----------|
| VAPOR | | TWA | STEL | OSHA PEL | PRESSURE |
| CAS NUMBER | % | | | | |
| Petroleum Asphalt | < 30 | | | 5 mg/M | <1 mm Hg |
| CAS# 8052-42-4 | | | | | @ 25 C |
| Surfactant | < 1 | None Established | | | Of Water |
| CAS #: Proprietary | | | | | |
| Inorganic Fillers | <75% | None as Blended | | | |
| CAS # Proprietary | | | | | |

SECTION III. PHYSICAL DATA

BOILING POINT: Of Water

VAPOR DENSITY: _____ Heavier than air ___X___ Lighter than air

EVAPORATION RATE: Of Water

% VOLATILE BY VOL: <45% DENSITY: 11 - 14 lbs./gal. pH: 5 - 12 SP. GR. > 1.0

APPEARANCE/ODOR: Flowable thixotropic black liquid, odor characteristic of asphalt

SOLUBILITY IN WATER: Completely Soluble V.O.C.: negligible (<1 g/L)

SECTION IV. FIRE AND EXPLOSION DATA

FLAMMABILITY CLASSIFICATION OSHA: NOT REGULATED

FLASH POINT: NONE

EXTINGUISHING MEDIA: Liquid will not burn: may act as a fire suppressant or retardant..

UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE

SPECIAL FIRE FIGHTING PROCEDURES: Dried polymer burns under influence of outside flame source. By-products of combustion may include, carbon monoxide, traces of oxides of nitrogen, aliphatic and aromatic hydrocarbons and water. 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: Vapors may form carbon dioxide and carbon monoxide.

INCOMPATIBILITY: Concentrated Acids.

CONDITIONS TO AVOID: Do not store at temperatures below 32 F - 0 C or above 110°F.

SECTION VI. HEALTH HAZARD DATA

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: Irritant to mucous membranes. Dust from cured coating may provoke asthmatic response in persons with asthma or those who are sensitive to airway irritants.

SKIN & EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE: Irritant to eyes and to the skin. 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: Dust from cured coating may provoke asthmatic response in persons with asthma or those who are sensitive to airway irritants.

TARGET ORGANS AFFECTED: No target organs have been identified to be affected by exposure to this product.

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

SUBSTANCES LISTED IN STATE OF CALIFORNIA PROP. 65: Mineral fillers may contain trace amounts of earth elements; which if isolated would be considered hazardous. Isolation not likely outside a laboratory environment.

EMERGENCY AND FIRST AID PROCEDURES: If inhalation of vapors causes a perceived 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 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. State of California - completely dried residue may be disposed of in sanitary landfill. Disposal material is not a RCRA hazardous waste.

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 32 F - 0 C and below 150°F - 66 C.

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.

PROTECTIVE GLOVES: Rubber 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. @ 916.387.0316 or Fax 916.381.2617**

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