



**CEMENT & CONCRETE PRODUCTS™**

|                                    |            |                                   |                   |
|------------------------------------|------------|-----------------------------------|-------------------|
| Crushed Limestone                  | 01317-65-3 | 5                                 | 5                 |
| Petroleum Asphalt                  | 8052-42-4  | 5 (2)                             |                   |
| Silica sand, crystalline (1)       | 14808-60-7 | <u>10</u><br>%SiO <sub>2</sub> +2 | 0.05 (respirable) |
| May contain one of the following:  |            |                                   |                   |
| Diesel fuel/Kerosene               |            |                                   | 100 (3)           |
| Petroleum Distillates<br>(Naphtha) | 8030-30-6  | 100 ppm                           | 100 ppm           |

(1) Silica is a natural occurring constituent in Limestone. The silica in this product is in a liquid suspension and is not expected to be in a respirable form under normal usage conditions.

(2) In 1997 the ACGH proposed lowering the exposure limit for petroleum asphalt to 0.5 mg/M<sup>3</sup>.

(3) In 1997 the ACGH proposed an exposure limit of 100 mg/M<sup>3</sup>. This agency is also proposing to list these materials as category A3 carcinogens. Category A3 carcinogens have been shown to be carcinogenic to animals at relatively high doses of exposure when tested in a manner which is not considered to be relevant to worker exposure.

**Other Limits:** National Institute for Occupational Safety and Health (NIOSH). Recommended standard maximum permissible concentration=0.05 mg/M<sup>3</sup> (respirable free silica) as determined by a full-shift sample up to 10-hour working day, 40-hour work week. See NIOSH Criteria for a Recommended Standard Occupational Exposure to Crystalline Silica.

**SECTION IV – First Aid Measures**

**Eyes:** Immediately flush eye thoroughly with water. Continue flushing eye for at least 15 minutes, including under lids, to remove all particles. Call physician immediately.

**Skin:** Wash skin with cool water and pH-neutral soap or a mild detergent. Seek medical treatment if irritation or inflammation develops or persists. Seek immediate medical treatment in the event of burns.

**Inhalation:** Remove person to fresh air. If breathing is difficult, administer oxygen. If not breathing, give artificial respiration. Seek medical help if coughing and other symptoms do not subside. Inhalations of large amounts of Portland cement require immediate medical attention.

**Ingestion:** Do not induce vomiting. GET MEDICAL ATTENTION PROMPTLY!

**SECTION V - FIRE AND EXPLOSION HAZARD DATA**

**Flash Point (Method Used):** 150°F Minimum (Pensky-Martin Closed Cup Method - ASTM D93)

**Flammable Limits:** LEL: 0.05 VEL: 5

**Extinguishing Media:** Water spray, Dry chemical, Foam or Carbon dioxide. Water or foam may cause frothing.

**Special Fire Fighting Procedures:** Self-contained Breathing apparatus required for enclosed areas. Avoid breathing vapors for long periods.

**Unusual Fire and Explosion Hazards:** Do not store with strong oxidants. Storage at elevated temperatures may cause release of flammable vapors in open air or explosive vapors in confined spaces. Can cause the creation of carbon monoxide, carbon dioxide, and hydrocarbons.

**SECTION VI – ACCIDENTAL RELEASE MEASURES**

If spilled, remove from bodies of water. Shovel into containers for reuse or disposal in accordance with local, state and federal guidelines. Recover and recycle as much as possible.

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**SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND STORAGE**

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Do not store with strong oxidizers. Store as OSHA Class IIIA Combustible material. Store away from heat sources and open flames.

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**SECTION VIII – EXPOSURE CONTROL MEASURES**

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**Engineering Controls:** Local exhaust with a minimum face velocity of 60 fpm

**Personal Protection:** Use of a NIOSH/MSHA-approved hydrocarbon vapor or supplied respiratory protection required in confined spaces. Use impervious gloves to avoid skin contact. Use splash goggles and face shields when eye/face contact may occur.

**Precautions:** Do not use solvents or abrasive cleaners to wash exposed skin.

WARN EMPLOYEES AND/OR CUSTOMERS OF THE HAZARDS AND REQUIRED OSHA PRECAUTIONS ASSOCIATED WITH THE USE OF THIS PRODUCT.

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**SECTION IX - PHYSICAL/CHEMICAL CHARACTERISTICS**

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**Appearance and Odor:** Black semi-solid material with a hydrocarbon odor

**Boiling Point:** (1) 105-338 F (40-170 C)

**Vapor Density:** >4

**Specific Gravity:** Approximately 2.25

**Evaporation Rate:** (1) >0.1

**Vapor Pressure:** (1) 10-200 mm Hg @ 68 F (20 C)

**Solubility in Water:** Negligible

**Melting Point:** (1) 100-135 F (38-57 C)

(1) Properties of asphalt binder portion of the product.

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**SECTION X - REACTIVITY DATA**

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**Stability:** Stable

**Incompatibility (Materials to Avoid):** Strong Oxidizers like liquid oxygen, sodium or calcium hypochlorite

**Hazardous Decomposition or Byproducts:** Incomplete combustion can yield carbon monoxide, and oxides of sulfur and nitrogen and various hydrocarbons.

**Hazardous Polymerization:** Will not occur

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**SECTION XI – TOXICOLOGICAL INFORMATION**

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**Routes of Entry:** Inhalation, Ingestion

**Toxicity to Animals:**

LD50: Not Available

LC50: Not Available

**Chronic Effects on Humans:** Conditions aggravated by exposure include eye disease, skin disorders and Chronic Respiratory conditions.

**Special Remarks on Toxicity:** Not Available

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**SECTION XII – ECOLOGICAL INFORMATION**

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**Ecotoxicity:** Not Available

**BOD5 and COD:** Not Available

**Products of Biodegradation:** Not available

**Toxicity of the Products of Biodegradation:** Not available

**Special Remarks on the Products of Biodegradation:** Not available

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**SECTION XIII – DISPOSAL CONSIDERATIONS**

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**Waste Disposal Method:** Dispose of unusable material via licensed waste disposal company in accordance with local, state and federal guidelines.

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**SECTION XIV – TRANSPORT INFORMATION**

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**DOT/UN Shipping Name:** Non-regulated

**DOT Hazard Class:** Non-regulated

**Shipping Name:** Non-regulated

Non-Hazardous under U.S. DOT and TDG Regulations

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**SECTION XV – OTHER REGULATORY INFORMATION**

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**US OSHA 29CFR 1910.1200:** Considered hazardous under this regulation and should be included in the employers hazard communication program

**SARA (Title III) Sections 311 & 312:** Not determined

**SARA (Title III) Section 313:** Not subject to reporting requirements

**TSCA (May 1997):** All components are on the TSCA inventory list

**Federal Hazardous Substances Act:** Is a hazardous substance subject to statutes promulgated under the subject act

**Canadian Environmental Protection Act:** Not listed

**Canadian WHMIS:** Considered to be a hazardous material under the Hazardous Products Act as defined by the Controlled Products Regulations and subject to the requirements of Health Canada's Workplace Hazardous Material Information (WHMIS). This product has been classified according to the hazard criteria of the Controlled Products Regulation (CPR). This document complies with the WHMIS requirements of the Hazardous Products Act (HPA) and the CPR.

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**SECTION XVI – OTHER INFORMATION**

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**HMIS-III:**

|               |   |
|---------------|---|
| Health –      | 0 = No significant health risk                            |
|               | 1 = Irritation or minor reversible injury possible        |
|               | 2 = Temporary or minor injury possible                    |
|               | 3 = Major injury possible unless prompt action is taken   |
|               | 4 = Life threatening, major or permanent damage possible  |
| Flammability- | 0 = Material will not burn                                |
|               | 1 = Material must be preheated before ignition will occur |

|                  |  |
|------------------|--|
| Physical Hazard- | 2 = Material must be exposed to high temperatures before ignition      |
|                  | 3 = Material capable of ignition under normal temperatures             |
|                  | 4 = Flammable gases or very volatile liquids; may ignite spontaneously |
|                  | 0 = Material is normally stable, even under fire conditions            |
|                  | 1 = Material normally stable but may become unstable at high temps     |
|                  | 2 = Materials that are unstable and may undergo react at room temp     |
|                  | 3 = Materials that may form explosive mixtures with water              |
|                  | 4 = Materials that are readily capable of explosive water reaction     |

**Abbreviations:**

|               |  |
|---------------|--|
| <b>ACGIH</b>  | American Conference of Government Industrial Hygienists            |
| <b>CAS</b>    | Chemical Abstract Service  |
| <b>CERCLA</b> | Comprehensive Environmental Response, Compensation & Liability Act |
| <b>CFR</b>    | Code of Federal Regulations  |
| <b>CPR</b>    | Controlled Products Regulations (Canada)                           |
| <b>DOT</b>    | Department of Transportation                                       |
| <b>IARC</b>   | International Agency for Research                                  |
| <b>MSHA</b>   | Mine Safety and Health Administration                              |
| <b>NIOSH</b>  | National Institute for Occupational Safety and Health              |
| <b>NTP</b>    | National Toxicity Program  |
| <b>OSHA</b>   | Occupational Safety and Health Administration                      |
| <b>PEL</b>    | Permissible Exposure Limit   |
| <b>RCRA</b>   | Resource Conservation and Recovery Act                             |
| <b>SARA</b>   | Superfund Amendments and Reauthorization Act                       |
| <b>TLV</b>    | Threshold Limit Value  |
| <b>TWA</b>    | Time-weighted Average  |
| <b>WHMIS</b>  | Workplace Hazardous Material Information System                    |

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**NOTE:** The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to silica contained in our products.

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