# MATERIAL SAFETY DATA SHEET

**Date:** July 1, 2004

#### **SECTION I - GENERAL INFORMATION**

**MANUFACTURER'S NAME:** Empire Blended Products, Inc.

MANUFACTURER'S ADDRESS: 250 Hickory Lane

Bayville, New Jersey 08721

EMERGENCY PHONE NUMBER: (732) 269-4949

**PRODUCT NAME:** HIGHWAY PATCH 7000

**TRADE NAME AND SYNONYMS:** Empire Blended Highway Patch 7000 **CHEMICAL NAME:** Portland Cement, Crystalline Silica (Quartz)

CHEMICAL FAMILY: Calcium Salts, Silicon Dioxide

FORMULA: CaO SiO<sub>2</sub>

## **SECTION II - HAZARDOUS INGREDIENTS**

 COMPONENT
 CAS #
 %
 PEL
 TLV

Silica, Crystalline Quartz

14808-60-7

67%

10mg/m³ Respirable

0.1mg/m³ Respirable

30mg/m<sup>3</sup> Total

# **SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS**

BOILING POINT: N/A
MELTING POINT: N/A
VAPOR PRESSURE: N/A
VAPOR DENSITY: N/A

**SOLUBILITY IN WATER:** Insoluble

**SPECIFIC GRAVITY: 2.90** 

PERCENT VOLATILE BY VOLUME: 0%

**EVAPORATION RATE: N/A** 

APPEARANCE AND ODOR: Fine powder and granular material, gray color, no odor

## **SECTION IV - FIRE AND EXPLOSION HAZARD DATA**

FLASH POINT (METHOD USED): Non-flammable, non-combustible or explosive

FLAMMABLE LIMITS: LEL: None UEL: None

**EXTINGUISHING MEDIA:** None

SPECIAL FIRE FIGHTING PROCEDURES: None

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

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SECTION V - REACTIVITY DATA
STABILITY: UNSTABLE: STABLE: _X_ CONDITIONS TO AVOID: None
INCOMPATIBILITY (MATERIALS TO AVOID): None
HAZARDOUS DECOMPOSITION PRODUCTS: None
HAZARDOUS POLYMERIZATION: MAY OCCUR: WILL NOT OCCUR:X CONDITIONS TO AVOID: None
SECTION VI - HEALTH HAZARD DATA

SKIN ABSORPTION: No NON HAZARDOUS:

CARCINOGENICITY: NTP: No OSHA: No

PRIMARY ROUTES OF ENTRY: INHALATION:

IARC MONOGRAPH: Yes NOT LISTED:

Yes

**HEALTH HAZARDS:** 

ACUTE: Acute or rapidly developing silicosis may occur in a short period of time in heavy exposure in certain

occupations such as sandblasters. Silicosis is a form of disabling pulmonary fibrosis which can be

INGESTION:

No

progressive and may lead to death.

CHRONIC: Prolonged exposure to respirable crystalline quartz may cause delayed (chronic) lung injury (silicosis).

#### SIGNS AND SYMPTOMS OF EXPOSURE:

Material can dry the skin and cause alkali burns. Dust can irritate the eyes and upper respiratory system.

#### MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

Pulmonary function may be reduced by inhalation of respirable crystalline silica.

#### **EMERGENCY FIRST AID PROCEDURES:**

**EYE CONTACT:** Wash immediately with water. If irritation persists, seek medical attention.

**SKIN CONTACT:** Wash exposed areas with soap and water.

**INHALATION:** For gross inhalation remove person to fresh air, give artificial respiration as needed, seek medical

attention as needed.

**INGESTION:** 

# **SECTION VII - CONTROL AND PROTECTIVE MEASURES**

RESPIRATORY PROTECTION (SPECIFIC TYPE): NIOSH approved respirator is recommended

PROTECTIVE GLOVES: Recommended EYE PROTECTION: Recommended

**VENTILATION TO BE USED:** 

LOCAL EXHAUST: Needed in dusty conditions

MECHANICAL: SPECIAL: OTHER:

OTHER PROTECTIVE CLOTHING AND EQUIPMENT: Boots when placing material

**HYGIENIC WORK PRACTICES:** 

#### SECTION VIII - PRECAUTION FOR SAFE HANDLING AND USE/LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS SPILLED OR RELEASED: Clean up immediately

WASTE DISPOSAL METHOD: Can be salvaged for use if not contaminated or removed as common waste

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Avoid excessive contact with skin

OTHER PRECAUTIONS AND/OR SPECIAL HAZARDS: Dustless method, (vacuum) preferable for cleanup.