



# SAFETY DATA SHEET

Prepared to U.S. OSHA, CMA, ANSI, Canadian WHMIS, the Korean ISHA (Notice 2009-68), the Japanese Industrial Standard JIS Z 7250: 2000, Mexican NOM018-STPS 2000, SPRING Singapore, and the Global Harmonization Standard

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY UNDERTAKING

### IDENTIFICATION OF THE MIXTURE

TRADE/MATERIAL NAME:  
RELEVANT USE of the SUBSTANCE:  
USES ADVISED AGAINST:  
SUPPLIER/MANUFACTURER'S NAME:

**SpecSeal® Firestop Mortar**  
Firestop and Sound Transmission  
None

Address:

**Specified Technologies Inc.**  
210 Evans Way,  
Somerville, New Jersey 08876  
(908) 526-8000 (8:00am to 5:00pm Eastern Standard Time)  
U.S., Canada: 1-800-255-3924 (24 hrs)  
International: +1-813-248-0585 (collect-24 hrs)

Business Phone:

Emergency Phone:

EMAIL of Competent Person for Information on SDS: [techserv@stifirestop.com](mailto:techserv@stifirestop.com)

NOTE: ALL United States Occupational Safety and Health Administration Standard (29 CFR 1910.1200), U.S. State equivalent Standards, Canadian WHMIS [Controlled Products Regulations], Mexican NOM018-STPS 2000, SPRING Singapore, and Japanese JIS Z7250 required information is included in appropriate sections based on the U.S. ANSI Z400.1-2010 format. This product has been classified in accordance with the hazard criteria of the countries listed above.

## 2. HAZARD IDENTIFICATION

GLOBAL HARMONIZATION AND JAPANESE JIS Z7253 LABELING AND CLASSIFICATION: This product has been classified per UN GHS Standards under U.S., Japanese and other applicable regulations that require Global Harmonization compliance.

Classification: Carcinogenic Category 2, Eye Damage Category 1, Skin Irritation Category 2, Specific Target Organ Toxicity (Inhalation-Respiratory Irritation) Single Exposure Category 3, Specific Target Organ Toxicity (Inhalation-Lung Damage) Repeated Exposure Category 2

Signal Word: Danger

Hazard Statements: Suspected of causing cancer. H318: Causes serious eye damage. Causes skin irritation. May cause respiratory irritation. Causes damages to lungs through prolonged or repeated exposure by inhalation.

Precautionary Statements:

Prevention: Obtain special instructions before use.: Do not handle until all safety precautions have been read and understood. Do NOT breathe dust. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves, clothing, eye protection and face protection. Wear respiratory protection.

Response: IF exposed or concerned: Get medical advice/attention.: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Immediately call a POISON CENTER or doctor. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If inhaled, remove victim to fresh air and keep at rest in a position comfortable for breathing. P312: Call a POISON CENTER or doctor if you feel unwell. Specific treatment (remove from exposure and treat symptoms).

Storage: Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Disposal: P501: Dispose of contents/containers in accordance with all local, regional, national and international regulations.

Hazard Symbols: GHS05, GHS07, GHS08



KOREAN ISHA (Notice 2009-68) LABELING AND CLASSIFICATION: Classified in accordance with ISHA Notice 2009-68. Under ISHA, no differences in classification are applicable.

## 3. COMPOSITION and INFORMATION ON INGREDIENTS

Chemical Name	CAS #	Chinese IECSC Inventory	Japanese ENCS #	Korean ECL #	Taiwan NESCI ECS	WT%	LABEL ELEMENTS GHS & Japanese JIS Z7253 Classification Korean ISHA Classification GHS Hazard Codes
Portland Cement Cement consists of the following:	65997-15-1					60-70%	SELF CLASSIFICATION GHS & JAPANESE JIS Z7253, KOREAN ISHA: Classification: Eye Damage Cat. 1, Skin Irritation Cat. 2, STOT (Inhalation-Respiratory Irritation) SE Cat. 3, STOT (Inhalation-Lung Damage) RE Cat. 2 Hazard Statement Codes: H318, H315, H335, H373
Calcium Sulfate	7778-1809	Listed	1-193	KE-04614			
Dicalcium Silicate	10034-77-8	Not Listed	1-194	KE-10013			
Tetracalcium Alumino Ferrite	12068-35-8	Not Listed	Not Listed	KE-00958			
Tricalcium Aluminate	12042-78-3	Listed	9-2408	KE-09693			
Tricalcium Silicate	12168-85-3	Listed	1-194	KE-34052			

### 3. COMPOSITION and INFORMATION ON INGREDIENTS (Continued)

Chemical Name	CAS #	Chinese IECSC Inventory	Japanese ENCS #	Korean ECL #	Taiwan NESCI ECS	WT%	LABEL ELEMENTS GHS & Japanese JIS Z7253 Classification Korean ISHA Classification GHS Hazard Codes
Crystalline Silica	14808-60-7	Listed	1-548	KE-29983		0.01-0.11%	SELF CLASSIFICATION GHS & JAPANESE JIS Z7253, KOREAN ISHA: Classification: Carcinogenic Cat. 1, STOT (Inhalation-Lungs) RE Cat. 2 Hazard Statement Codes: H350, H373

### 4. FIRST-AID MEASURES

**DESCRIPTION OF FIRST AID MEASURES:** Contaminated individuals must be taken for medical attention if any adverse effects occur. Remove contaminated clothing and shoes. Take a copy of this SDS to health professional with victim. Wash clothing and thoroughly clean shoes before reuse. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Take a copy of label and SDS to physician or health professional with the contaminated individual.

**Skin Exposure:** Wash skin with cool water and a pH neutral soap or mild detergent. Seek medical attention if adverse effect occurs after flushing or in all cases of prolonged exposure to wet product or prolonged wet skin exposure to the product.

**Inhalation:** If dust from product is inhaled, remove victim to fresh air. Seek medical attention if adverse effect continues after removal to fresh air.

**Eye Exposure:** If this product contaminates the eyes, immediately rinse eyes under gently running water. Use sufficient force to open eyelids and then "roll" eyes while flushing. Minimum flushing is for 20 minutes.

**Ingestion:** If this product is swallowed, CALL PHYSICIAN OR POISON CONTROL CENTER FOR MOST CURRENT INFORMATION. If professional advice is not available, DO NOT INDUCE VOMITING. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or unable to swallow.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** Pre-existing skin or respiratory disorders may be aggravated by overexposures to this product.

**INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT IF NEEDED:** Treat symptoms and eliminate exposure.

### 5. FIRE-FIGHTING MEASURES

**FLASH POINT:** Not determined.

**AUTOIGNITION TEMPERATURE:** Not available.

**FLAMMABLE LIMITS (in air by volume, %):** Not applicable.

**FIRE EXTINGUISHING MEDIA:** Use extinguishing materials suitable for the surrounding area.

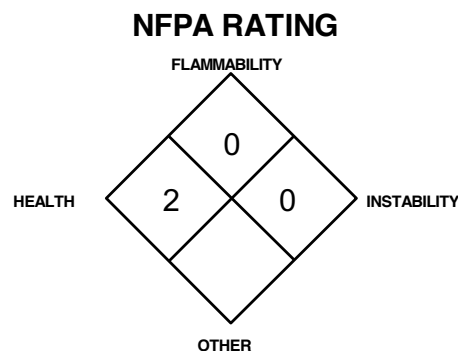
**UNSUITABLE FIRE EXTINGUISHING MEDIA:** Water should be used with care as the product can react with slowly water to form hardened hydrated compounds, releasing heat and producing a strong alkaline solution.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** This product is formulated to be non-flammable and non-combustible. When involved in a fire, this material may decompose and produce irritating vapors and toxic gases

**Explosion Sensitivity to Mechanical Impact:** Not sensitive.

**Explosion Sensitivity to Static Discharge:** Not sensitive.

**SPECIAL PROTECTIVE ACTIONS FOR FIRE-FIGHTERS:** No Special protective actions for fire-fighters are anticipated.



Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate  
3 = Serious 4 = Severe

### 6. ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS AND EMERGENCY PROCEDURES:** Uncontrolled releases should be responded to by trained personnel using pre-planned procedures. Proper protective equipment should be used. Call CHEMTREC (1-800-424-9300) for emergency assistance. Or if in Canada, call CANUTEC (613-996-6666).

**PERSONAL PROTECTIVE EQUIPMENT:** Proper protective equipment should be used.

**Small Spills:** Wear rubber gloves, splash goggles, and appropriate body protection.

**Large Spills:** Minimum Personal Protective Equipment should be rubber gloves, rubber boots, and splash goggles.

**METHODS FOR CLEAN-UP AND CONTAINMENT:** Spills of this product present minimal hazard.

**Small Spills:** Small releases can be carefully swept up or cleaned up using a damp sponge or polypads.

**Large Spills:** Access to the spill area should be restricted. For large spills, dike or otherwise contain spill and sweep-up or vacuum with non-sparking vacuum, avoiding generation of dusts.

## 6. ACCIDENTAL RELEASE MEASURES (Continued)

### METHODS FOR CLEAN-UP AND CONTAINMENT (continued):

**All Spills:** Place all spill residue in a double plastic bag or other containment and seal. Rinse area with soap and water solution and follow with a water rinse.. Do not mix with wastes from other materials. Dispose of in accordance with applicable Federal, State, and local procedures (see Section 13, Disposal Considerations). For spills on water, contain, minimize dispersion and collect. Dispose of recovered material and report spill per regulatory requirements.

**ENVIRONMENTAL PRECAUTIONS:** Avoid release to the environment. Run-off water may be contaminated by other materials and should be contained to prevent possible environmental damage.

**REFERENCE TO OTHER SECTIONS:** See information in Section 8 (Exposure Controls – Personal Protection) and Section 13 (Disposal Considerations) for additional information.

## 7. HANDLING and USE

**PRECAUTIONS FOR SAFE HANDLING:** As with all chemicals, avoid getting this material ON YOU or IN YOU. Do not eat, drink, smoke, or apply cosmetics while handling this product. Wash hands thoroughly after handling this product or containers of this product. Avoid breathing fumes or vapors generated by this product. Use in a well-ventilated location. Routinely clean areas of use to avoid accumulation of dusts.

**CONDITIONS FOR SAFE STORAGE:** Store containers in a cool, dry location, away from moisture or incompatible materials (see Section 10. Stability and Reactivity).

**SPECIFIC END USE(S):** This product is for use as a sealant. Follow all industry standards for use of this product.

**PROTECTIVE PRACTICES DURING MAINTENANCE OF CONTAMINATED EQUIPMENT:** Follow practices indicated in Section 6 (Accidental Release Measures). Collect all rinsates and dispose of according to applicable Federal, State, and local procedures.

## 8. EXPOSURE CONTROLS - PERSONAL PROTECTION

### EXPOSURE LIMITS/CONTROL PARAMETERS:

**Ventilation and Engineering Controls:** Use with adequate ventilation to ensure exposure levels are maintained below the limits provided below (if applicable). Exhaust directly to the outside, taking necessary precautions for environmental protection.

#### Workplace Exposure Limits/Control Parameters:

CHEMICAL NAME	CAS #	EXPOSURE LIMITS IN AIR							
		ACGIH-TLVs		OSHA-PELs		NIOSH-RELs		NIOSH	OTHER
		TWA mg/m <sup>3</sup>	STEL mg/m <sup>3</sup>	TWA mg/m <sup>3</sup>	STEL mg/m <sup>3</sup>	TWA mg/m <sup>3</sup>	STEL mg/m <sup>3</sup>	IDLH mg/m <sup>3</sup>	mg/m <sup>3</sup>
Crystalline Silica (Quartz)	14808-60-7	0.025 (resp. fract.)	NE	0.05 mg/m <sup>3</sup> (resp. dust)		0.05 (resp. dust)	NE	50	Carcinogen: IARC-1, MAK-1 (respirable fraction), NOSH-Ca, NTP-K (respirable fraction), TLV-A2
Magnesium Oxide	1309-48-4	10 (inhal. fract.)	NE	15 (total particulate) fume	NE	NE	NE	750 (fume)	Carcinogen: TLV-A4
Portland Cement Cement also consists of the following compounds:	65997-15-1	1 (resp. fract.)	NE	5 (total dust) 5 (resp. fract.)	NE	NE	NE	5000	DFG MAK: Dust (quartz & chromate fractions must be evaluated as such (valid only for low-chromate cement containing < 2 ppm of Cr (VI). Refer to the Cr (VI) compounds from cement with a higher Cr (VI) content) Carcinogen: MAK-3B, TLV-A4
Calcium Sulfate	7778-18-9	10 (inhal. fract.)	NE	15 (total dust) 5 (resp. fract.)	NE	10 (total dust), 5 (resp. fract.)	NE	NE	DFG MAK: TWA = 4 (inhalable fraction), 1.5 (resp. fract.) DFG MAK Pregnancy Risk Classification: C
Dicalcium Silicate Tricalcium Silicate Exposure limits given are for calcium silicate	10034-77-2 12168-85-3	10 (synthetic, non-fibrous)	NE	15 (total dust), 5 (resp. fract.)	NE	10 (total dust), 5 (resp. fract.)	NE	NE	Carcinogen: TLV-A4
Tetracalcium Alumino Ferrite	12068-35-8	NE	NE	NE	NE	NE	NE	NE	NE
Tricalcium Aluminate	12042-78-3	NE	NE	NE	NE	NE	NE	NE	NE

NE = Not Established.    mppcf: Millions of Particles per Cubic Foot    See Section 16 for Definitions of Other Terms Used

## 8. EXPOSURE CONTROLS - PERSONAL PROTECTION (continued)

**International Occupational Exposure Limits:** Currently, the following additional exposure limit values have been established by various countries for the components of this mixture. More current limits may be available; individual countries should be consulted to determine if newer limits are available.

### CRYSTALLINE SILICA:

Australia: TWA = 0.1 mg/m<sup>3</sup>, JUL 2008  
Belgium: TWA = 0.1 mg/m<sup>3</sup> (resp. dust), MAR 2002  
Denmark: TWA = 0.1 mg/m<sup>3</sup> (respirable), carc, MAY 2011  
Denmark: TWA = 0.1 mg/m<sup>3</sup> (resp.), carc, MAY 2011  
Denmark: TWA = 0.3 mg/m<sup>3</sup> (total), MAY 2011  
Finland: TWA = 0.05 mg/m<sup>3</sup>, resp. dust, SEP 2009  
France: VME = 0.1 mg/m<sup>3</sup>, (resp), FEB 2006  
Iceland: TWA = 0.1 mg/m<sup>3</sup> (resp. dust), NOV 2011  
Japan: OEL-C = 0.03 mg/m<sup>3</sup> (respirable), APR 2007  
Korea: TWA = 0.1 mg/m<sup>3</sup>, 2006  
Mexico: TWA = 0.1 mg/m<sup>3</sup> (respirable), 2004  
The Netherlands: MAC-TGG = 0.075 mg/m<sup>3</sup>, 2003  
New Zealand: TWA = 0.2 mg/m<sup>3</sup> (respirable dust), JAN 2002  
Norway: TWA = 0.1 mg/m<sup>3</sup> (resp. dust), JAN 1999  
Norway: TWA = 0.3 mg/m<sup>3</sup> (total dust), JAN 1999  
Peru: TWA = 0.05 mg/m<sup>3</sup>, JUL 2005  
Russia: TWA = 1 mg/m<sup>3</sup>, STEL = 3 mg/m<sup>3</sup>, JUN 2003  
Sweden: TWA = 0.1 mg/m<sup>3</sup> (resp. dust), JUN 2005  
Switzerland: MAK-W = 0.15 mg/m<sup>3</sup>, DEC 2006  
Thailand: TWA = 10 mg/m<sup>3</sup> (resp. dust), JAN 1993  
Thailand: TWA = 30 mg/m<sup>3</sup> (total dust), JAN 1993

United Kingdom: TWA = 0.1 mg/m<sup>3</sup> (resp. dust), OCT 2007

In Argentina, Bulgaria, Colombia, Jordan, Singapore, Vietnam check ACGIH TLV

### PORTLAND CEMENT:

Belgium: TWA = 10 mg/m<sup>3</sup>, MAR 2002  
Finland: TWA = 1 mg/m<sup>3</sup>, resp. dust, NOV 2011  
Finland: TWA = 5 mg/m<sup>3</sup>, inhal. dust, NOV 2011  
Hungary: TWA = 10 mg/m<sup>3</sup>, SEP 2000  
Japan: OEL = 1 mg/m<sup>3</sup> (resp. dust), 4 mg/m<sup>3</sup> (total dust), MAY 2012  
Korea: TWA = 10 mg/m<sup>3</sup>, 2006  
Mexico: TWA = 10 mg/m<sup>3</sup>; STEL = 20 mg/m<sup>3</sup> (inhalable), 2004  
The Netherlands: MAC-TGG = 10 mg/m<sup>3</sup>, 2003  
New Zealand: TWA = 10 mg/m<sup>3</sup> (inspirable dust), JAN 2002  
Peru: TWA = 10 mg/m<sup>3</sup>, JUL 2005  
Switzerland: MAK-W = 5 mg/m<sup>3</sup>, inhal dust, sen, JAN 2011  
United Kingdom: TWA = 4 mg/m<sup>3</sup> (resp. dust), OCT 2007  
United Kingdom: TWA = 10 mg/m<sup>3</sup> (inhal. dust), OCT 2007  
In Argentina, Bulgaria, Colombia, Jordan, Singapore, Vietnam check ACGIH TLV  
**TRICALCIUM SILICATE:**  
Russia: STEL 4 mg/m<sup>3</sup>, JUN 2003

**PROTECTIVE EQUIPMENT:** The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132, including U.S. Federal OSHA Respiratory Protection (29 CFR 1910.134), OSHA Eye Protection 29 CFR 1910.133, OSHA Hand Protection 29 CFR 1910.138, OSHA Foot Protection 29 CFR 1910.136 and OSHA Body Protection 29 CFR 1910.132), equivalent standards of Canada (including CSA Respiratory Standard Z94.4-02, Z94.3-M1982, Industrial Eye and Face Protectors and CSA Standard Z195-02, Protective Footwear), or standards of Japan (including JIS T 8116:2005 for glove selection, JIS T 8150:2006 for respiratory PPE, JIS T 8147:2003 for eye protectors, and JIS T 8030:2005 for protective clothing). Please reference applicable regulations and standards for relevant details.

**Respiratory Protection:** Maintain airborne contaminant concentrations below exposure limits listed above. For materials without listed exposure limits, minimize respiratory exposure. The following are NIOSH respiratory protective equipment for Portland Cement.

### PORTLAND CEMENT

#### CONCENTRATION

#### RESPIRATORY PROTECTION

Up to 50 mg/m<sup>3</sup>:

Any quarter-mask respirator.

Up to 100 mg/m<sup>3</sup>:

Any particulate respirator equipped with an N95, R95, or P95 filter (including N95, R95, and P95 filtering facepieces) except quarter-mask respirators. The following filters may also be used: N99, R99, P99, N100, R100, P100 or any Supplied-Air Respirator (SAR).

Up to 250 mg/m<sup>3</sup>:

Any SAR operated in a continuous-flow mode, or any Powered Air-Purifying Respirator (PAPR) with a high-efficiency particulate filter.

Up to 500 mg/m<sup>3</sup>:

Any Air-Purifying, Full-Facepiece Respirator with an N100, R100, or P100 filter OR any SAR that has a tight-fitting facepiece and is operated in a continuous-flow mode, or any PAPR with a tight-fitting facepiece and a high-efficiency particulate filter, OR any Self-Contained Breathing Apparatus (SCBA) with a full facepiece or any SAR with a full facepiece.

Up to 5,000 mg/m<sup>3</sup>:

Any SAR operated in a pressure-demand or other positive-pressure mode.

Emergency or Planned

Entry into Unknown Concentrations or IDLH Conditions: Any SCBA that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode, or any SAR that has a full-facepiece and is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary SCBA operated in pressure-demand or other positive-pressure mode.

Escape:

Any Air-Purifying, Full-Facepiece Respirator with an N100, R100, or P100 filter.

**Eye Protection:** Wear safety glasses.

**Hand Protection:** During manufacture or other similar operations, wear the appropriate hand protection for the process. Use double gloves for spill response, as stated in Section 6 (Accidental Release Measures) of this SDS.

**Skin Protection:** Use appropriate protective clothing for the task. Impervious clothing is recommended.

## 9. PHYSICAL and CHEMICAL PROPERTIES

**FORM:** Granular solid.

**MOLECULAR FORMULA:** Mixture.

**ODOR:** Mild acrylic.

**FLAMMABLE LIMITS (in air by volume, %):** Not applicable.

**DECOMPOSITION TEMPERATURE:** Not available.

**AUTOIGNITION TEMPERATURE:** Not available.

**FREEZING/MELTING POINT:** Not available.

**VAPOR PRESSURE:** Not available.

**VAPOR DENSITY (air = 1):** Not available.

**EVAPORATION RATE (n-BuAc = 1):** Zero.

**SOLUBILITY IN WATER:** Insoluble.

**COEFFICIENT WATER/OIL DISTRIBUTION:** Not established.

**HOW TO DETECT THIS SUBSTANCE (warning properties in event of accidental release):** The appearance may be a characteristic to distinguish a release of this product.

**COLOR:** Red.

**MOLECULAR WEIGHT:** Mixture.

**ODOR THRESHOLD:** Not available.

**OXIDIZING PROPERTIES:** Not applicable.

**PERCENT VOLATILE:** Not applicable.

**FLASH POINT:** Not available.

**BOILING POINT:** > 1000°C (> 1832°F)

**SPECIFIC GRAVITY (water = 1):** 0.44

**CARB VOC:** Not applicable

**SCAQMD (U.S. EPA Method 24):** Not applicable.

**SOLUBILITY IN SOLVENTS:** Not available.

**pH:** ~ 12-13

## 10. STABILITY and REACTIVITY

**CHEMICAL STABILITY:** This product is stable when properly stored at normal temperature and away from moisture (see Section 7, Handling and Storage). This product reacts with acids, aluminum metals and ammonium salts. The reaction with water slowly forms hardened hydrated compounds, releasing heat and producing a strong alkaline solution.

**DECOMPOSITION PRODUCTS:** **Combustion:** If exposed to extremely high temperatures, thermal decomposition may generate irritating fumes and toxic gases. **Hydrolysis:** None known.

**MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE:** This product is incompatible with acids, aluminum metals and ammonium salts.

**POSSIBILITY OF HAZARDOUS POLYMERIZATION OR REACTION:** Will not occur.

**CONDITIONS TO AVOID:** Avoid exposure to or contact with extreme temperatures and incompatible chemicals.

## 11. TOXICOLOGICAL INFORMATION

**SYMPTOMS OF EXPOSURE BY ROUTE OF EXPOSURE:** The health hazard information provided below is pertinent to employees using this product in an occupational setting. The following paragraphs describe the symptoms of exposure by route of exposure.

**Inhalation:** Inhalation dust from product may cause irritation of the nose, throat, and lungs and cause coughing. Prolonged or chronic inhalation may cause damage to the lungs or bronchitis. The Crystalline Silica component is a known human carcinogen.

**Contact with Skin or Eyes:** Direct eye contact may cause irritation, redness, and tearing from mechanical irritation. Prolonged eye contact can cause burns or blindness. Brief skin contact may cause mild irritation. Prolonged or repeated skin exposures may cause dermatitis (dry red skin). In the presence of moisture on the skin, severe irritation or burns may occur. In the presence of moisture, skin burns may occur 12 to 48 hours after exposure; there may be no pain at the time of exposure.

**Skin Absorption:** Components are not known to be absorbed through intact skin.

**Ingestion:** Ingestion is not a significant route of occupational exposure and is unlikely to occur.

**Injection:** Accidental injection of this product, via laceration or puncture by a contaminated object can cause redness at the site of injection. Animal data for the Crystalline Silica component indicate that it may cause carcinogenic effects by this route of exposure.

**HEALTH EFFECTS OR RISKS FROM EXPOSURE:** Exposure to this product may cause the following health effects:

**Acute:** This product can cause irritation by all routes of exposure; irritation is more severe in presence of water or moisture. Eye contact can be severe or may cause blindness, if prolonged.

**Chronic:** Prolonged or repeated skin exposure may cause dermatitis (dry red skin). Chronic inhalation may cause damage to lungs and/or bronchitis. This product contains trace amounts of Crystalline Silica, a known human carcinogen.

**TARGET ORGANS:** Acute: Skin, eyes, respiratory system. Chronic: Skin.

**TOXICITY DATA:** Currently, the following toxicological data are available for components of 1% or more concentration.

### MAGNESIUM OXIDE:

TCLo (Inhalation-Human) 400 mg/m<sup>3</sup>

TCLo (Inhalation-Mammal-Species Unspecified) 4 mg/m<sup>3</sup>/12 minutes: Nutritional and Gross Metabolic: body temperature increase

TCLo (Inhalation-Rat) 1120 µg/m<sup>3</sup>/24 hours/29 days-continuous: Brain and Coverings: recordings from specific areas of CNS; Blood: changes in serum composition (e.g. TP, bilirubin, cholesterol); Biochemical: Enzyme inhibition, induction, or change in blood or tissue levels: true cholinesterase

TCLo (Inhalation-Rat) 1000 mg/m<sup>3</sup>/4 hours/50 days-intermittent: Lungs, Thorax, or Respiration: other changes; Blood: other hemolysis with or without anemia

TDLo (Intratracheal-Hamster) 480 mg/kg/30 weeks-intermittent: Tumorigenic: equivocal tumorigenic agent by RTECS criteria; Sense Organs and Special Senses (Olfaction): tumors  
Lungs, Thorax, or Respiration: tumors

**IRRITANCY OF PRODUCT:** This product may cause irritation by all routes of exposure. Chronic contact or contact in the presence of water or moisture can cause severe irritation or burns.

**SENSITIZATION OF PRODUCT:** This product is not currently known to cause allergic skin or respiratory reaction.

**CARCINOGENIC POTENTIAL OF COMPONENTS:** Components of this product are listed by agencies tracking the carcinogenic potential of chemical compounds, as follows:

**CALCIUM SILICATES, MAGNESIUM OXIDES:** ACGIH TLV-A4 (Not Classifiable as a Human Carcinogen)

**CRYSTALLINE SILICA:** ACGIH-TLV-A2 (Suspected Human Carcinogen); IARC-1 (Carcinogenic to Humans);

MAK-1 (Substances that Cause Cancer in Man and Can Be Assumed to Make a Significant Contribution to Cancer Risk); NIOSH-Ca (Potential Occupational Carcinogen with No Further Categorization); NTP-K (Known to Be a Human Carcinogen)



**PORTLAND CEMENT:** ACGIH TLV-A4 (Not Classifiable as a Human Carcinogen); MAK-3B (Substances for which in vitro tests or animals have yielded evidence of carcinogenic effects that is not sufficient for classification of the substance in one of the other categories. Further studies are required before a final classification can be made)

The remaining components are not found on the following lists: U.S. EPA, U.S. NTP, U.S. OSHA, U.S. NIOSH, GERMAN MAK, IARC, or ACGIH and therefore is neither considered to be nor suspected to be a cancer-causing agent by these agencies.

**REPRODUCTIVE TOXICITY INFORMATION:** Components of this product have no reported mutagenic, embryotoxic, teratogenic or reproductive toxicity.

**ACGIH BIOLOGICAL EXPOSURE INDICES (BEIs):** Currently, there are no ACGIH Biological Exposure Indices (BEIs) determined for this material.

**DEGREE OF EFFECT TO THE HEALTH OF THE POLLUTING AGENT OF ENVIRONMENT OF WORK (per Mexican NOM-010 STPS-1999):** 0

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM			
HEALTH HAZARD	(BLUE)	2*	
FLAMMABILITY HAZARD	(RED)	0	
PHYSICAL HAZARD	(YELLOW)	1	
PROTECTIVE EQUIPMENT			
EYES	RESPIRATORY	HANDS	BODY
	SEE SECTION 8		SEE SECTION 8
For Routine Industrial Use and Handling Applications			

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate  
3 = Serious 4 = Severe \* = Chronic hazard

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## 12. ECOLOGICAL INFORMATION

ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.

MOBILITY: This product has not been tested for mobility in soil.

PERSISTENCE AND BIODEGRADABILITY: This product has not been tested for persistence or biodegradability. The mineral components are not expected to biodegrade to great extent.

BIO-ACCUMULATION POTENTIAL: This product has not been tested for bio-accumulation potential.

ECOTOXICITY: This product has not been tested for aquatic or animal toxicity. All releases to terrestrial, atmospheric and aquatic environments should be avoided. Release of large quantity may raise the pH of affected area and cause harm to aquatic and terrestrial organisms.

OTHER ADVERSE EFFECTS: Components are not listed as having ozone depletion potential.

ENVIRONMENTAL EXPOSURE CONTROLS: Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways.

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## 13. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS: It is the responsibility of the generator to determine at the time of disposal whether the product meets the criteria of a hazardous waste per regulations of the area in which the waste is generated and/or disposed of. Waste disposal must be in accordance with appropriate Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority. Shipment of wastes must be done with appropriately permitted and registered transporters.

DISPOSAL CONTAINERS: Waste materials must be placed in and shipped in appropriate 5-gallon or 55-gallon poly or metal waste pails or drums. Permeable cardboard containers are not appropriate and should not be used. Ensure that any required marking or labeling of the containers be done to all applicable regulations.

PRECAUTIONS TO BE FOLLOWED DURING WASTE HANDLING: Wear proper protective equipment when handling waste materials.

U.S. EPA WASTE NUMBER: Not applicable.

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## 14. TRANSPORTATION INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION REGULATIONS: This product is not classified as dangerous goods, per U.S. DOT regulations, under 49 CFR 172.101.

TRANSPORT CANADA TRANSPORTATION OF DANGEROUS GOODS REGULATIONS: This product is not classified as Dangerous Goods, per regulations of Transport Canada.

INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA): This product is not classified as dangerous goods under rules of IATA.

INTERNATIONAL MARITIME ORGANIZATION (IMO) DESIGNATION: This product is not classified as Dangerous Goods by the International Maritime Organization.

OFFICIAL MEXICAN STANDARD; REGULATION FOR THE TRANSPORT OF DANGEROUS GOODS AND RESIDUES: This product is not classified as Dangerous Goods, per transport regulations of Mexico.

SINGAPORE STANDARD 286: PART A: This product has no requirements under the Specification for Caution Labeling for Hazardous Substances, Part 4: Marking of Packages, Containers and Vehicles, as it does not meet the criteria for any hazard class under this regulation.

TRANSPORT IN BULK ACCORDING TO THE IBC CODE: See the information under the individual jurisdiction listings for IBC information.

ENVIRONMENTAL HAZARDS: This material does not meet the criteria of environmentally hazardous according to the criteria of the UN Model Regulations (as reflected in the IMDG Code, ADR, RID, and ADN) and is not listed in Annex III under MARPOL 73/78.

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## 15. REGULATORY INFORMATION

### UNITED STATES REGULATIONS:

U.S. SARA Reporting Requirements: This product is not subject to the reporting requirements of Sections 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act.

U.S. SARA Hazard Categories (Section 311/312, 40 CFR 370-21): ACUTE: Yes; CHRONIC: Yes; FIRE: No; REACTIVE: No; SUDDEN RELEASE: No

U.S. SARA Threshold Planning Quantity (TPQ): There are no specific Threshold Planning Quantities for components. The default Federal SDS submission and inventory requirement filing threshold of 10,000 lb (4,540 kg) may apply, per 40 CFR 370.20.

U.S. CERCLA Reportable Quantity (RQ): Not applicable.

U.S. TSCA Inventory Status: Components of this product are listed on the TSCA Inventory.

California Safe Drinking Water and Toxic Enforcement Act (Proposition 65): The Crystalline Silica component is on the California Proposition 65 lists. WARNING! This product contains a compound known to the State of California to cause Cancer.

### CANADIAN REGULATIONS:

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## 15. REGULATORY INFORMATION (continued)

Canadian DSL/NDSL Inventory Status: Components are on the DSL or NDSL Inventories.

Canadian Environmental Protection Act (CEPA) Priorities Substances Lists: Components are not on the CEPA Priorities Substances Lists.

Canadian WHMIS Classification and Symbols: This product would be categorized as a Controlled Product, D2B (Other Toxic Effects-Potential Carcinogenic Effect, Irritation) as per the Controlled Product Regulations, E (Corrosive).



### CHINESE REGULATIONS:

Chinese Inventory of Existing Chemical Substances Status: Components listed by CAS# are listed on the Chinese Inventory of Existing Chemical Substances (IECSC), as given in Section 2 (Composition and Information on Ingredients).

### JAPANESE REGULATIONS:

Japanese ENCS: Components listed by CAS# are on the ENCS Inventory or are excepted, as given in Section 2 (Composition and Information on Ingredients).

Japanese Ministry of Economy, Trade, and Industry (METI) Status: Components are not listed as Class I Specified Chemical Substances, Class II Specified Chemical Substances, or Designated Chemical Substances by the Japanese METI.

Poisonous and Deleterious Substances Control Law: Components are not listed as a Specified Poisonous Substance under the Poisonous and Deleterious Substances Control Law.

### KOREAN REGULATIONS:

Korean Existing Chemicals List (ECL) Status: Components listed by CAS# are listed on the Korean ECL Inventory.

### MEXICAN REGULATIONS:

Mexican Workplace Regulations (NOM-018-STPS-2000): This product is classified as hazardous.

### SINGAPORE REGULATIONS:

List of Controlled Hazardous Substances: Components listed by CAS# are not listed on the Singapore List of Controlled Substances.

Code of Practice on Pollution Control Requirements: The components identified by CAS# in Section 2 (Composition and Information on Ingredients) NOT are subject to the requirements under the Singapore Code of Practice on Pollution Control.

### TAIWANESE REGULATIONS:

Taiwan Existing Chemical Substances Inventory Status: Components listed by CAS# are listed on the Taiwan Existing Chemicals List.

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## 16. OTHER INFORMATION

REFERENCES AND DATA SOURCES: Contact the supplier for information.

METHODS OF EVALUATING INFORMATION FOR THE PURPOSE OF CLASSIFICATION: Criteria of the GHS were used for classification.

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