



## SAFETY DATA SHEET

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### SECTION 1: PRODUCT IDENTIFICATION

**NAME:** SIDER-THIN BED MORTAR

### SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

**COMMERCIAL APPLICATION:** CEMENT MORTAR

**MAJOR RAW MATERIAL:** PORTLAND CEMENT CAS # 65997-15-1

**MINOR RAW MATERIAL:** SILICA SAND CAS # 14808-60-7  
CALCIUM HYDROXIDE CAS # 1305-62-0

### SECTION 3: HAZARDS IDENTIFICATION

THE CEMENT MORTAR IS A SOLID, GREY, WHITE OR COLORED POWDER. IT IS NOT COMBUSTIBLE OR EXPLOSIVE. A SINGLE, SHORT-TERM EXPOSURE TO THE DRY POWDER PRESENTS LITTLE OR NO HAZARD. EXPOSURE OF SUFFICIENT DURATION TO WET CEMENT MORTAR, OR TO DRY CEMENT MORTAR ON MOIST AREAS OF THE BODY, CAN CAUSE SERIOUS, POTENTIALLY IRREVERSIBLE TISSUE (SKIN, EYE, RESPIRATORY TRACT) DAMAGE DUE TO CHEMICAL (CAUSTIC) BURNS, INCLUDING THIRD DEGREE BURNS.

#### POTENTIAL HEALTH EFFECTS

##### RELEVANT ROUTES OF EXPOSURE:

EYE CONTACT, SKIN CONTACT, INHALATION AND INGESTION

##### EFFECT RESULTING FROM EYE CONTACT:

EXPOSURE TO AIRBORNE DUST MAY CAUSE IMMEDIATE OR DELAYED IRRITATION OR INFLAMMATION. EYE CONTACT BY LARGER AMOUNTS OF DRY POWDER OR SPLASHES OF WET CEMENT MORTAR MAY CAUSE EFFECTS RANGING FROM MODERATE EYE IRRITATION TO CHEMICAL BURNS AND BLINDNESS. SUCH EXPOSURES REQUIRE IMMEDIATE FIRST AID (SEE SECTION 4) AND MEDICAL ATTENTION TO PREVENT SIGNIFICANT DAMAGE TO THE EYE (S).

##### EFFECTS RESULTING FROM SKIN CONTACT:

CEMENT MORTAR MAY CAUSE DRY SKIN, DISCOMFORT, IRRITATION, SEVERE BURNS, AND DERMATITIS.

##### BURNS:

EXPOSURE OF SUFFICIENT DURATION TO WE CEMENT, OR TO DRY CEMENT MORTAR ON MOIST AREAS OF THE BODY, CAN CAUSE SERIOUS, POTENTIALLY IRREVERSIBLE DAMAGE TO SKIN, EYE, RESPIRATORY AND DIGESTIVE TRACTS DUE TO CHEMICAL (CAUSTIC) BURNS, INCLUDING THIRD DEGREE BURNS, A SKIN EXPOSURE MAY BE HAZARDOUS EVEN IF THERE IS NO PAIN OR DISCOMFORT.



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### DERMATITIS:

CEMENT MORTAR IS CAPABLE OF CAUSING DERMATITIS BY IRRITATION AND ALLERGY. SKIN AFFECTED BY DERMATITIS MAY INCLUDE SYMPTOMS SUCH AS, REDNESS, ITCHING, RASH, SCALING, AND CRACKING.

IRRITANT DERMATITIS IS CAUSED BY THE PHYSICAL PROPERTIES OF CEMENT MORTAR INCLUDING ALKALINITY AND ABRASION.

ALLERGIC CONTACT DERMATITIS IS CAUSED BY SENSITIZATION TO HEXAVALENT CHROMIUM (CHROMATE) PRESENT IN CEMENT. THE REACTION CAN RANGE FROM A MILD RASH TO SEVERE SKIN ULCERS. PERSONS ALREADY SENSITIZED MAY REACT TO THE FIRST CONTACT WITH CEMENT. OTHERS MAY DEVELOP ALLERGIC DERMATITIS AFTER YEARS OF REPEATED CONTACT WITH CEMENT.

### **EFFECTS RESULTING FROM INHALATION:**

#### ACUTE:

BREATHING DUST MAY CAUSE NOSE, THROAT OR LUNG IRRITATION, INCLUDING CHOKING, DEPENDING ON THE DEGREE OF EXPOSURE. INHALATION OF HIGH LEVELS OF DUST CAN CAUSE CHEMICAL BURNS TO THE NOSE, THROAT AND LUNGS.

#### CHRONIC:

RISK OF INJURY DEPENDS ON DURATION AND LEVEL OF EXPOSURE.

#### SILICOSIS:

THIS PRODUCT CONTAINS CRYSTALLINE SILICA. PROLONGED OR REPEATED INHALATION OF RESPIRABLE CRYSTALLINE SILICA FROM THIS PRODUCT COULD CAUSE SILICOSIS, A SERIOUSLY DISABLING AND FATAL LUNG DISEASE. SEE NOTE TO PHYSICIANS IN SECTION 4 FOR FURTHER INFORMATION.

#### CARCINOGENICITY:

CEMENT MORTAR IS NOT LISTED AS A CARCINOGEN BY IARC OR NTP; HOWEVER, CEMENT MORTAR CONTAINS TRACE AMOUNTS OF CRYSTALLINE SILICA AND HEXAVALENT CHROMIUM, WHICH ARE CLASSIFIED BY IARC AND NTP AS KNOWN HUMAN CARCINOGENS.

#### AUTOIMMUNE DISEASE:

SOME STUDIES SHOW THAT EXPOSURE TO RESPIRABLE CRYSTALLINE SILICA (WITHOUT SILICOSIS) OR THAT THE DISEASE SILICOSIS MAY BE ASSOCIATED WITH THE INCREASED INCIDENCE OF SEVERAL AUTOIMMUNE DISORDERS SUCH AS SCLERODERMA (THICKENING OF THE SKIN), SYSTEMIC LUPUS ERYTHEMATOSUS, RHEUMATOID ARTHRITIS AND DISEASES AFFECTING THE KIDNEYS.

#### TUBERCULOSIS:

SILICOSIS INCREASES THE RISK OF TUBERCULOSIS.

#### RENAL DISEASE:

SOME STUDIES SHOW AN INCREASED INCIDENCE OF CHRONIC KIDNEY DISEASE AND END-STAGE RENAL DISEASE IN WORKERS EXPOSED TO RESPIRABLE CRYSTALLINE SILICA.



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### **EFFECTS RESULTING FROM INGESTION:**

DO NOT INGEST CEMENT MORTAR. ALTHOUGH INGESTION OF SMALL QUANTITIES OF CEMENT MORTAR IS NOT KNOWN TO BE HARMFUL, LARGE QUANTITIES CAN CAUSE CHEMICAL BURNS IN THE MOUTH, THROAT, STOMACH AND DIGESTIVE TRACT.

### **MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:**

INDIVIDUALS WITH LUNG DISEASE (E.G. BRONCHITIS, EMPHYSEMA, COPD, PULOMONARY DISEASE) OR SENSITIVITY TO HEXAVALENT CHROMIUM CAN BE AGGRAVATED BY EXPOSURE.

## **SECTION 4: EMERGENCY FIRST AID PROCEDURES**

### **EYES:**

IMMEDIATELY FLUSH EYES THOROUGHLY WITH WATER. CONTINUE FLUSHING EYES FOR AT LEAST 15 MINUTES, INCLUDING UNDER LIDS, TO REMOVE ALL PARTICLES. SEEK MEDICAL ATTENTION FOR ABRASIONS AND BURNS.

### **SKIN:**

WASH SKIN WITH COOL WATER AND pH-NEUTRAL SOAP OR A MILD DETERGENT. SEEK MEDICAL ATTENTION FOR RASH, BURNS, IRRITATIONS, DERMATITIS, AND PROLONGED UNPROTECTED EXPOSURES TO WET CEMENT, CEMENT MORTAR MIXTURES OR LIQUIDS FROM WET CEMENT.

### **INHALATION:**

REMOVE TO FRESH AIR. SEEK MEDICAL HELP IF COUGHING AND OTHER SYMPTOMS DO NOT SUBSIDE.

### **INGESTION:**

DO NOT INDUCE VOMITING. IF CONSCIOUS, HAVE THE VICTIM DRINK PLENTY OF WATER AND SEEK MEDICAL ATTENTION OR CONTACT POISON CONTROL CENTER IMMEDIATELY.

### **NOTE TO PHYSICIAN:**

THE THREE TYPES OF SILICOSIS INCLUDE:

- **SIMPLE CHRONIC SILICOSIS** – WHICH RESULTS FROM LONG-TERM EXPOSURE (MORE THAN 20 YEARS) TO LOW AMOUNTS OF RESPIRABLE CRYSTALLINE SILICA. NODULES OF CHRONIC INFLAMMATION AND SCARRING PROVOKED BY THE RESPIRABLE CRYSTALLINE SILICA FORM IN THE LUNGS AND CHES LYMPH NODES. THIS DISEASE MAY FEATURE BREATHLESSNESS AND MAY RESEMBLE CHRONIC OBSTRUCTIVE PULMONARY DISEASE (COPD).
- **ACCELERATED SILICOSIS** – OCCURS AFTER EXPOSURE TO LARGER AMOUNTS OF RESPIRABLE CRYSTALLINE SILICA OVER A SHORTER PERIOD OF TIME (5-15 YEARS). INFLAMMATION, SCARRING, AND SYMPTOMS PROGRESS FASTER IN ACCELERATED SILICOSIS THAN IN SIMPLE SILICOSIS.
- **ACUTE SILICOSIS** – RESULTS FROM SHORT-TERM EXPOSURE TO VERY LARGE AMOUNTS OF RESPIRABLE CRYSTALLINE SILICA. THE LUNGS BECOME VERY INFLAMED AND MAY FILL WITH FLUID, CAUSING SEVERE SHORTNESS OF BREATH AND LOW BLOOD OXYGEN LEVELS.



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PROGRESSIVE MASSIVE FIBROSIS MAY OCCUR IN SIMPLE OR ACCELERATED SILICOSIS, BUT IS MORE COMMON IN THE ACCELERATED FORM. PROGRESSIVE MASSIVE FIBROSIS RESULTS FROM SEVERE SCARRING AND LEADS TO THE DESTRUCTION OF NORMAL LUNG STRUCTURES.

### SECTION 5: FIREFIGHTER MEASURES

FLASH POINT & METHOD: NON-COMBUSTIBLE  
 GENERAL HAZARD: AVOID BREATHING DUST. WET CEMENT MORTAR IS CAUSTIC.  
 EXTINGUISHING MEDIA: USE EXTINGUISHING MEDIA APPROPRIATE FOR SURROUNDING FIRE.  
 FIREFIGHTER EQUIPMENT: CEMENT MORTAR POSES NO FIRE-RELATED HAZARD. A SCBA IS RECOMMENDED TO LIMIT EXPOSURE TO COMBUSTION PRODUCTS WHEN FIGHTING ANY FIRE.  
 COMBUSTION PRODUCTS: NONE.

HMIS 0=INSIGNIFICANT    1=SLIGHT    2=MODERATE    3=HIGH    4=EXTREME  
 HEALTH: 1                  FIRE: 0                  REACTIVITY: 0

### SECTION 6: ACCIDENT RELEASE MEASURES

GENERAL:

PLACE SPILLED MATERIAL INTO A CONTAINER. AVOID ACTIONS THAT CAUSE THE CEMENT MORTAR TO BECOME AIRBORNE. AVOID INHALATION OF CEMENT MORTAR AND CONTACT WITH SKIN. WEAR APPROPRIATE PROTECTIVE EQUIPMENT AS DESCRIBED IN SECTION 8. SCRAPE WET CEMENT MORTAR AND PLACE IN CONTAINER. ALLOW MATERIAL TO DRY OR SOLIDIFY BEFORE DISPOSAL. DO NOT WASH CEMENT MORTAR DOWN SEWAGE AND DRAINAGE SYSTEMS OR INTO BODIES OF WATER (E.G. STREAMS). DISPOSE OF WASTE MATERIAL ACCORDING TO LOCAL, STATE AND FEDERAL REGULATIONS.

### SECTION 7: HANDLING AND STORAGE

GENERAL:

KEEP CEMENT MORTAR DRY UNTIL USED. NORMAL TEMPERATURES AND PRESSURES DO NOT AFFECT THE MATERIAL. PROMPTLY REMOVE DUSTY CLOTHING OR CLOTHING WITH CEMENT MORTAR FLUIDS AND LAUNDRER BEFORE REUSE. WASH THOROUGHLY AFTER EXPOSURE TO DUST OR WET CEMENT MORTAR MIXTURES OR FLUIDS.

USAGE:

CUTTING, CRUSHING, OR GRINDING HARDENED CEMENT, CONCRETE OR OTHER CRYSTALLINE SILICA BEARING MATERIALS WILL RELEASE RESPIRABLE CRYSTALLINE SILICA. USE ALL APPROPRIATE MEASURES OF DUST CONTROL OR SUPPRESSION, AND PERSONAL PROTECTIVE EQUIPMENT (PPE) DESCRIBED IN SECTION 8 BELOW.

### SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

USE LOCAL EXHAUST OR GENERAL DILUTION VENTILATION OR OTHER SUPPRESSION METHODS TO MAINTAIN DUST LEVELS BELOW EXPOSURE LIMITS.



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### **SKIN PROTECTION:**

WEAR GLOVES, BOOT COVERS AND PROTECTIVE CLOTHING IMPERVIOUS TO WATER TO PREVENT SKIN CONTACT. DO NOT RELY ON BARRIER CREAMS, IN PLACE OF IMPERVIOUS GLOVES. REMOVE CLOTHING AND PROTECTIVE EQUIPMENT THAT BECOMES SATURATED WITH WET CEMENT MORTAR AND IMMEDIATELY WASH EXPOSED AREAS.

### **RESPIRATORY PROTECTION:**

UNDER ORDINARY CONDITIONS NO RESPIRATORY PROTECTION IS REQUIRED. WEAR A NIOSH APPROVED RESPIRATOR THAT IS PROPERLY FITTED AND IS IN GOOD CONDITION WHEN EXPOSED TO DUST ABOVE EXPOSURE LIMITS.

### **EYE PROTECTION:**

WEAR ANSI APPROVED GLASSES OR SAFETY GOGGLES WHEN HANDLING DUST OR WET CEMENT MORTAR TO PREVENT CONTACT WITH EYES. WEARING CONTACT LENSES WHEN USING CEMENT, UNDER DUSTY CONDITIONS, IS NOT RECOMMENDED.

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

<b>APPEARANCE:</b>	GREY, OFF WHITE OR WHITE POWDER
<b>ODOR:</b>	NO DISTINCT ODOR
<b>PHYSICAL STATE:</b>	SOLID (POWDER)
<b>SOLUBILITY IN WATER:</b>	SLIGHTLY SOLUBLE (0.1 TO 1.0%)
<b>VAPOR PRESSURE:</b>	NOT APPLICABLE
<b>VAPOR DENSITY:</b>	NOT APPLICABLE
<b>SPECIFIC GRAVITY:</b>	3.15
<b>EVAPORATION RATE:</b>	NOT APPLICABLE
<b>PH (IN WATER):</b>	12 – 13
<b>BOILING POINT:</b>	>1000° C
<b>FREEZING POINT:</b>	NONE, SOLID.
<b>VISCOSITY:</b>	NONE, SOLID.

## **SECTION 10: STABILITY AND REACTIVITY**

**STABILITY:** STABLE. KEEP DRY UNTIL USE. AVOID CONTACT WITH INCOMPATIBLE MATERIALS.

**CONDITIONS TO AVOID:** WET CEMENT MORTAR IS ALKALINE AND IS INCOMPATIBLE WITH ACIDS, AMMONIUM SALTS AND ALUMINUM METAL. CEMENT MORTAR DISSOLVES IN HYDROFLUORIC ACID, PRODUCING CORROSIVE SILICON TETRAFLUORIDE GAS. CEMENT MORTAR REACTS WITH WATER TO FORM SILICATES AND CALCIUM HYDROXIDE. SILICATES REACT WITH POWERFUL OXIDIZERS SUCH AS FLUORINE, BORON TRIFLUORIDE, CHLORINE TRIFLUORIDE, MANGANESE TRIFLUORIDE, AND OXYGEN DIFLUORIDE.

**HAZARDOUS DECOMPOSITION:** NONE

**HAZARDOUS POLYMERIZATION:** NONE



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### **SECTION 11 & 12: TOXICAL & ECOLOGICAL INFORMATION**

#### **ACUTE EFFECTS**

PRODUCT BECOMES ALKALINE WHEN EXPOSED TO MOISTURE. CONTACT WITH WET WHICH CAN BURN SKIN AND EYES. DUST FROM THE DRY MATERIAL CAN CAUSE IRRITATION AND POSSIBLE BURNS TO THE EYES AND RESPIRATORY TRACT. SYMPTOMS CAN BE DELAYED.

#### **SENSITIZATION**

THE PRODUCT MAY CONTAIN CHROMATES, WHICH MAY CAUSE AN ALLERGIC SKIN SENSITIZATION REACTION.

#### **CHRONIC EFFECTS**

RESPIRABLE CRYSTALLINE SILICA (QUARTZ) CAN CAUSE SILICOSIS, A FIBROSIS (SCARRING) OF THE LUNGS. SOME STUDIES SHOW EXCESS NUMBERS OF CASES OF SCLERODERMA, CONNECTIVE TISSUE DISORDERS, LUPUS, RHEUMATOID ARTHRITIS, CHRONIC KIDNEY DISEASES AND END – STAGE KIDNEY DISEASE IN WORKERS EXPOSED TO RESPIRABLE CRYSTALLINE SILICA. OCCUPATIONAL EXPOSURE TO RESPIRABLE DUST AND RESPIRABLE DUST AND RESPIRABLE CRYSTALLINE SILICA SHOULD BE MONITORED AND CONTROLLED. PROLONGED OR REPEATED SKIN CONTACT MAY PRODUCE SEVERE IRRITATION OR DERMATITIS. INHALATION OF POWDER / DUST MAY CAUSE LUNG EDEMA. DANGER OF SERIOUS DAMAGE TO HEALTH BY PROLONGED EXPOSURE.

#### **ECOTOXICITY**

NOT AVAILABLE.

#### **ENVIRONMENTAL EFFECTS**

AN ENVIRONMENTAL HAZARD CANNOT BE EXCLUDED IN THE EVENT OF UNPROFESSIONAL HANDLING OR DISPOSAL. NOT AVAILABLE.

#### **PERSISTENCE AND DEGRADABILITY**

NOT AVAILABLE.

#### **BIOACCUMULATION / ACCUMULATION PARTITION COEFFICIENT (N-OCTANOL / WATER)**

NO DATA AVAILABLE.

NOT AVAILABLE.

#### **MOBILITY IN ENVIRONMENTAL MEDIA**

NO DATA AVAILABLE

### **SECTION 13: DISPOSAL**

DISPOSE OF WASTE MATERIAL ACCORDING TO LOCAL, STATE AND FEDERAL REGULATIONS.

### **SECTION 14: TRANSPORTATION DATA**

#### **LAND TRANSPORT USDOT**

NOT CLASSIFIED AS A DANGEROUS GOOD UNDER TRANSPORT REGULATIONS.

#### **SEA TRANSPORT IMDG**

NOT CLASSIFIED AS A DANGEROUS GOOD UNDER TRANSPORT REGULATIONS.

#### **AIR TRANSPORT IATA/ICAO**

NOT CLASSIFIED AS A DANGEROUS GOOD UNDER TRANSPORT REGULATIONS.



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### **SECTION 15: OTHER REGULATORY INFORMATION**

#### **OSHA/MSHA HAZARD COMMUNICATIONS**

THIS PRODUCT IS CONSIDERED BY OSHA/MSHA TO BE A HAZARDOUS CHEMICAL AND SHOULD BE INCLUDED IN THE EMPLOYER'S HAZARD COMMUNICATION PROGRAM.

#### **CERCLA/SUPERFUND**

THIS PRODUCT IS NOT LISTED AS A CERCLA HAZARDOUS SUBSTANCE.

#### **EPCRA SARA TITLE III**

THIS PRODUCT HAS BEEN REVIEWED ACCORDING TO THE EPA HAZARD CATEGORIES PROMULGATED UNDER SECTIONS 311 AND 312 OF THE SUPERFUND AMENDMENT AND REAUTHORIZATION ACT OF 1986 AND IS CONSIDERED A HAZARDOUS CHEMICAL AND A DELAYED HEALTH HAZARD.

#### **EPRCA SARA SECTION 313**

THIS PRODUCT CONTAINS NONE OF THE SUBSTANCES SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372.

#### **RCRA**

IF DISCARDED IN ITS PURCHASED FORM, THIS PRODUCT WOULD NOT BE A HAZARDOUS WASTE EITHER BY LISTING OR CHARACTERISTIC. HOWEVER, UNDER RCRA, IT IS THE RESPONSIBILITY OF THE PRODUCT USER TO DETERMINE AT THE TIME OF DISPOSAL, WHETHER A MATERIAL CONTAINING THE PRODUCT OR DERIVED FROM THE PRODUCT SHOULD BE CLASSIFIED AS A HAZARDOUS WASTE.

#### **TSCA**

PORTLAND CEMENT MORTAR AND CRYSTALLINE SILICA ARE EXEMPT FROM REPORTING UNDER THE INVENTORY UPDATE RULE.

#### **CALIFORNIA PROPOSITION 65**

CRYSTALLINE SILICA (AIRBORNE PARTICULATES OF RESPIRABLE SIZE) AND CHROMIUM (HEXAVALENT COMPOUNDS) ARE SUBSTANCES KNOWN BY THE STATE OF CALIFORNIA TO CAUSE CANCER.

#### **WHMIS/DSL**

PRODUCTS CONTAINING CRYSTALLINE SILICA AND CALCIUM CARBONATE ARE CLASSIFIED AS D2A, E AND ARE SUBJECT TO WHMIS REQUIREMENTS.

### **SECTION 16: OTHER INFORMATION**

THE INFORMATION PROVIDED IN THIS DATA SHEET WAS BELIEVED TO BE ACCURATE AT THE TIME OF THE PREPARATION OR PREPARED FROM SOURCES BELIEVED TO BE RELIABLE. IT IS THE RESPONSIBILITY OF THE USER TO DETERMINE THE SAFETY MEASURES TO APPLY.