**WHITTEMORE COMPANY SAFETY DATA SHEET**

**SECTION 1 - Chemical Product and Company Identification**

Product Identifier: PREMIER MIX Chimney Insulation (Vermiculite Aggregate Based)

Product Class: Hydrated Laminar Magnesium Aluminum Iron Silicate mix with Portland Cement

Product Use: Construction, Chimney insulation, and casting applications

**Whittemore Company, Inc.**

30 Glenn Street

Lawrence, MA 01843

Emergency Telephone Number: 978-681-8833

Fax Number: 978-682-3413

**Supplier’s Name (if different)**

**National Chimney**

3 Green Tree Drive

South Burlington, VT 05403

Emergency Telephone Number: 888-945-2080

Fax Number: 866-658-9105

Preparation date of SDS: May 17, 2015

SDS Prepared By: Whittemore Company (Phone: 978-681-8833)

**SECTION 2 – Hazards Identification**

2.1. Classification of the substance or mixture

GHS Classification

* Skin corrosion/irritation 1B
* Eye Irritation 1
* Inhalation 4

2.2. Label Elements

Hazard Pictograms

 

Signal word: DANGER

Hazard Statements

* May cause severe skin burns and eye damage.
* May cause respiratory irritation.
* May cause an allergic skin reaction.

Prevention Statements

* Use proper engineering controls, work practices and personal protective equipment to prevent exposure to product. Wash hands thoroughly after handling.

Response Statements

* If on skin, take off all contaminated clothing. Rinse skin with water, shower. If swallowed rinse mouth, do not induce vomiting. Seek medical attention. If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. If eye irritation persists, seek medical attention. If inhaled, remove person to fresh air.

Emergency Overview: This fine particle size product represents inhalation hazards that can readily be controlled with appropriate dust protection equipment. Avoid processes that generate unnecessary dust.

**SECTION 3 – Composition/Information on Ingredients**

Product Description/Components: Exfoliated vermiculite powder, flakes or granules,

CAS# 1318-00-9, mixed with Portland cement powder, CAS # 65997-15-1

Hazardous ACGIH

Ingredients CAS# % TLV, mg/cu.m. NIOSH, mg/cu.m OSHA PEL, mg/cu.m

Portland 10 (Total) 15 (Total)

Cement ¹ ² 65997-15-1 50 – 60 3 (Respirable) 5 (Respirable)

Calcium

Sulfate 13397-24-5 <3.0 10 (Total) 15 (Total)

Dihydrate 5 (Respirable)

Calcium

Carbonate 1317-65-3 <3.0 10 (Total) 15 (Total)

5 (Respirable)

Magnesium

Oxide 1309-48-4 <3.0 10 (Total) 15 (Total)

Calcium

Oxide 1305-78-8 <3.0 2 (Total) 5 (Total)

LD**50**: Not Available LC**50**: Not Available

¹Portland Cement is classified as silicates or particulate matter (less than 1% crystalline silica) by OSHA (29 CFR 1910.1000, Table Z-3), MSHA (30 CFR 56.5001, ACGIH TLV’s Guide to Occupational Exposure Values, 2011. Portland Cement is not listed by NTP, IARC, or OSHA as containing carcinogens.

²Small amounts of chloride, crystalline silica, potassium and sodium compounds, cadmium, chromium, nickel, lead and organic compounds may also be present.

Trace constituents: Portland Cement has a variable composition depending upon the cementitious products produced in the cement kiln. Small amounts of naturally occurring, but potentially harmful, chemical compounds might be detected during chemical analysis. These trace compounds might include free crystalline silica, potassium and sodium compounds; heavy metals including cadmium, chromium, magnesium nickel and lead; and organic compounds. Other trace constituents may include calcium oxide (also known as free lime or quick lime).

**SECTION 4 – First Aid Measures**

|  |
| --- |
| Eyes: Irrigate eyes with water for at least 15 minutes, including under the lid, to remove all particles. Contact physician immediately. |
| Skin: Flush the exposed skin with cool water and a pH neutral soap or mild detergent for at least 15 minutes depending on the amount and duration of exposure. Immediately remove all contaminated clothing, including footwear. If irritation persists, consult physician. |
| Inhalation: Remove to fresh air. Seek medical attention for discomfort or if coughing or other symptoms persist. |

Ingestion: Do not induce vomiting. Seek medical attention or contact poison control center

immediately.

**SECTION 5 - Fire Fighting Measures**

Flammable: No

Means of Extinction: Use extinguishing media appropriate for surrounding material.

Flashpoint (C) and Method (oc or cc): N/A

Upper Flammable Limit (% by volume): N/A

Lower Flammable Limit (% by volume): N/A

Autoignition Temperature (C): N/A

Explosion Data - Sensitivity to Impact: N/A

Explosion Data - Sensitivity to Static Discharge: This is a fine particle dusty material. High airborne concentrations of dusts are susceptible to explosions.

Hazardous Combustion Products: N/A

NFPA: Health: 1, Flammability: 0, Reactivity: 0, Other: None

HMIS Ratings: Health: 1, Flammability: 0, Reactivity: 0, Personal Protection: E

**SECTION 6 - Accidental Release Measures**

Leak and Spill Procedures: Normal clean-up procedures. Care should be taken to avoid causing dust to become airborne. Vacuum cleaning systems are recommended. Do not add water to spilled material, since collected dry material may be reused.

**SECTION 7 - Handling and Storage**

Handling Procedures and Equipment: Avoid creating unnecessary dust

Storage Requirements: Keep dry. Store with other dusty materials, away from products that could be affected by dust.

**SECTION 8 - Exposure Control/Personal Protection**

Exposure Limits

|  |  |  |
| --- | --- | --- |
| Component | OSHA/MSHA PEL | ACGIH TLV |
| Portland Cement | 15 mg/m³ (Total) /  5 mg/m³ (Resp)  50 mppcf | 1 mg/m³ (Resp)  See Table Z-3 |

Otherwise: ACGIH TLV: 10 mg/m³ total dust

3 mg/m³ respirable dust

OSHA PEL: 15 mg/m³ total dust

5 mg/m³ respirable dust

Engineering Controls

General: Good housekeeping rules apply

Local Exhaust from work stations using this material

Recommended Personal Protective Equipment to avoid contact with skin, eyes, nose, etc.:

Plastic or Rubber Gloves

Respirator – NIOSH/OSHA approved dust respirator adequate for contaminant concentrations encountered.

Eye protection recommended. Do not wear contact lenses while handling this material.

Disposable footwear for frequent handling of this material

Coveralls for frequent handling of this material

**SECTION 9 – Physical and Chemical Properties**

Physical State: Solid powder, with flakes or granules

Odor and Appearance: Grey to tan powder, containing flakes or granules and having no odor

Odor Threshold (ppm): N/A

Specific Gravity: 2.6 to 3.0

Vapor Density (air=1): N/A

Vapor Pressure (mmHg): N/A

Evaporation Rate: N/A

Boiling Point (C): N/A

Freezing Point (C): N/A

pH: 11 - 13, as 10% slurry in distilled water

Coefficient of Water/Oil Distribution: N/A

Solubility in Water: Slightly soluble (0.1 – 1.0%)

Visual Detection Method Only

**SECTION 10 - Stability and Reactivity**

Chemical Stability: Stability: Keep dry. Avoid contact with incompatible materials. Portland Cement reacts with water, resulting in a slight release of heat, depending on the amount of lime (calcium oxide) present. Portland Cement should be kept dry until utilized.

Possibility of Hazardous Reactions: Incompatibility: Wet Portland Cement is alkaline (pH 12-13). As such it is incompatible with acids, ammonium salts, and aluminum metal. Portland Cement dissolves in hydrofluoric acid, producing corrosive silicon tetra fluoride gas. Silicates react with powerful oxidizers such as fluorine, boron trifluoride, chlorine, trifluoride, magnesium trifluoride and oxygen difluoride.

Hazardous Decomposition or Byproducts: None

Hazardous Polymerization: Not known to occur

Conditions to avoid: Unintentional contact with water.

**SECTION 11 - Toxicological Information**

Health Effects: Health Hazards (Acute and Chronic): Acute: Wet cement, especially as an ingredient in plastic (unhardened) concrete, can dry the skin and cause alkali burns. Cement dust will irritate the eyes and upper respiratory system and can cause alkali burns.

Chronic: Hypersensitive people may develop allergic dermatitis.

Carcinogenicity: N/A

Signs and Symptoms of Exposure: Reddened eyes, drying of skin, irritaton of upper respiratory tract and throat, alkali burns to skin.

Medical Conditions Generally Aggravated by Exposure: Dermatitis, pre-existing upper respiratory and lung diseases

**SECTION 12 – Ecological Information**

Aquatic Toxicity: Low hazard for usual industrial or commercial handling. Full hydration leaves an inert substance. Highly alkaline intermediate condition may be hazardous to plants and animals. Do not flush to sewer.

**SECTION 13 – Disposal Considerations**

Waste Disposal: Dispose of this product in accordance with all applicable local, state and

Federal regulations.

**SECTION 14 – Transport Information**

Special Shipping Information

DOT: No special requirements

IMO: Non-hazardous

ICAO: Non-hazardous

**SECTION 15 – Regulatory Information**

WHMIS Symbols: 

Potential Health Effects: See above regarding long term exposure: skin irritation, silicosis, lung cancer and eye irritation

WHMIS CLASSIFICATION:

Workplace Hazardous Material Information System (Canada): Portland Cement is considered to be a hazardous material under the Hazardous Product Act as defined by the Controlled Products Regulations (Class E-Corrosive Material) and is therefore subject to the labeling and SDS requirements of the Workplace Hazardous Materials Information System (WHMIS)

OSHA: Label as required by Hazard Communication Standard 29 CFR 1910.1200 (f) and applicable state and local laws and regulations (Hazardous, to be included in the employer’s Hazard Communication Plan)

TSCA: Some components of Portland cement are listed. Vermiculite is considered listed as it is a naturally occurring mineral.

(WHMIS).

**SECTION 16 – Other Information**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

Information provided in this document is believed to be accurate as of May 17, 2015 and may be subject to change without notice. The information is provided in good faith to comply with applicable federal and state laws. However, no warranty or representation with respect to such information is intended or given. It is the responsibility of the user to comply with all applicable federal, state, and local laws and regulations.