

# MATERIAL SAFETY DATA SHEET

Date Prepared: February 1, 2020

## 1. PRODUCT/COMPANY IDENTIFICATION

Product Name:

**SuperSet® Premium 400 Thin Set Mortar** (White and Grey)

Manufacturer's Name & Address:

Superset Caribbean Limited  
10C Plaisance Park Industrial Estate,  
Pointe-a-Pierre,  
Trinidad & Tobago

Tel: 868-659-0511

## 2. EMERGENCY AND FIRST AID

EMERGENCY INFORMATION:

This product is a cementitious powder blend. When in contact with moisture in eyes or on skin, or when mixed with water, it becomes highly caustic (pH > 12) and will damage or burn (as severely as third-degree) the eyes or skin. Inhalation may cause irritation to the moist mucous membranes of the nose, throat and upper respiratory system or may cause or may aggravate certain lung diseases or conditions. Use exposure controls or personal protection methods described in Section 12.

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. Inhalation of large amounts of this product requires immediate medical attention.

INGESTION:

Do not induce vomiting. If conscious, have the victim drink plenty of water and call a physician immediately.

## COMPOSITION INFORMATION

DESCRIPTION: This product consists of a heterogeneous mixture of hydraulic cement, sand and Cellulose Ether.

The major compounds are:

3CaO•SiO<sub>2</sub> Tricalcium Silicate CAS #12168-85-3

2CaO•SiO<sub>2</sub> Dicalcium Silicate CAS #10034-77-2

3CaO•Al<sub>2</sub>O<sub>3</sub> Tricalcium Aluminate CAS #12042-78-3

4CaO•Al<sub>2</sub>O<sub>3</sub>•Fe<sub>2</sub>O<sub>3</sub> Tetracalcium aluminoferrite CAS #12068-35-8

CaSO<sub>4</sub>•2H<sub>2</sub>O Calcium Sulfate dihydrate (Gypsum) CAS #7778-18-9 (CAS #13397-24-5)

SiO<sub>2</sub> Silica Sand CAS #14808-60-7

## 4. HAZARDOUS INGREDIENTS

### COMPONENT

OSHA PEL

ACGIH TLV-TWA

NIOSH REL

### Hydraulic Cement

5 mg respirable dust/m<sup>3</sup>

15 mg total dust/m<sup>3</sup>

10 mg total dust/m<sup>3</sup>

### Calcium Sulphate (CAS #7778-18-9) [Gypsum (CAS #13397-24-5)]

5 mg respirable dust/m<sup>3</sup>

15 mg total dust/m<sup>3</sup>

10 mg total dust/m<sup>3</sup>

### Iron oxide (CAS #1309-37-1)

10 mg/m<sup>3</sup>

5 mg/m<sup>3</sup>

### Calcium carbonate (CAS #1317-65-3)

5 mg respirable dust/m<sup>3</sup>

15 mg total dust/m<sup>3</sup>

10 mg total dust/m<sup>3</sup>

**Magnesium oxide (CAS #1309-48-4)**

15 mg total dust/m<sup>3</sup>

10 mg total dust/m<sup>3</sup>

**Calcium oxide (CAS #1306-78-8)**

5 mg/m<sup>3</sup>

2 mg/m<sup>3</sup>

**Crystalline silica (CAS #14808-60-7)**

10 mg of respirable dust/m<sup>3</sup>

**% SiO<sub>2</sub> + 2**

0.5 mg respirable  
quartz/m<sup>3</sup>

0.05 mg respirable quartz  
dust/m<sup>3</sup>

**TRACE INGREDIENTS:**

There are small amounts of Cellulose Ether and Ethyl Vinyl Acetate present which are both classified as Non-Hazardous in the concentration present. Due to the use of substances mined from the earth's crust, trace amounts of other naturally occurring, potentially harmful constituents may be detected during chemical analysis.

**5. HAZARD IDENTIFICATION**

**POTENTIAL HEALTH EFFECTS:**

NOTE: Potential health effects may vary depending upon the duration and degree of exposure. To reduce or eliminate health hazards associated with this product, use exposure controls or personal protection methods as described in Section 12.

**EYE CONTACT:**

(Acute/Chronic) Exposure to airborne dust may cause immediate or delayed irritation or inflammation of the cornea. Eye contact by larger amounts of dry powder or splashes of wet product may cause effects ranging from moderate eye irritation to chemical burns and blindness.

**SKIN CONTACT:**

(Acute) Exposure to dry product may cause drying of the skin with consequent mild irritation or more significant effects attributable to aggravation of other conditions. Discomfort or pain cannot be relied upon to alert a person to a hazardous skin exposure.

(Chronic) Dry product coming in contact with wet skin or exposure to wet product may cause more severe skin effects, including thickening, cracking or fissuring of the skin. Prolonged exposure can cause severe skin damage in the form of chemical (caustic) burns.

(Acute/Chronic) Some individuals may exhibit an allergic response upon exposure to product. The response may appear in a variety of forms ranging from a mild rash to severe skin ulcers.

#### INHALATION:

(Acute) Exposure to product may cause irritation to the moist mucous membranes of the nose, throat and upper respiratory system. Pre-existing upper respiratory and lung diseases may be aggravated by inhalation.

(Chronic) Inhalation exposure to free crystalline silica may cause delayed lung injury including silicosis, a disabling and potentially fatal lung disease, and/or cause or aggravate other lung diseases or conditions.

#### INGESTION:

(Acute/Chronic) Internal discomfort or ill effects are possible if large quantities are swallowed.

#### CARCINOGENIC POTENTIAL:

This product is not recognized as a carcinogen by NTP, OSHA, or IARC. However, it may contain trace amounts of heavy metals recognized as carcinogens by these organizations. In addition, it also contains crystalline silica which IARC classifies as a known human carcinogen (Group I). The NTP, in its ninth Annual Report on Carcinogens, classified "silica, crystalline (respirable)" as a known carcinogen. (See also Sections 4 and 12.)

## 6. ACCIDENTAL RELEASE MEASURES

Contain material to prevent contamination of soil, surface water or ground water. Use dry clean-up methods that do not disperse dust into the air or entry into surface water. Material can be used if not contaminated. Place in an appropriate labeled container for disposal or use. Avoid inhalation of dust and contact with skin and eyes. Use exposure control and personal protection methods as described in Section 12.

## 7. PHYSICAL/CHEMICAL DATA

APPEARANCE/ODOR: Gray or White, odorless

PHYSICAL STATE: Solid (Powder mixed with sand.)

BOILING POINT: > 1000°C

MELTING POINT: > 1000°C

VAPOR PRESSURE: Not applicable

VAPOR DENSITY: Not applicable

pH (IN WATER) (ASTM D 1293-95): 12 to 13

SOLUBILITY IN WATER: Slightly soluble (0.1% to 1.0%)

SPECIFIC GRAVITY (H<sub>2</sub>O = 1.0): 2.5 – 2.8

EVAPORATION RATE: None

## **8. FIRE AND EXPLOSION**

FLASH POINT: None

LOWER EXPLOSIVE LIMIT: None

AUTO IGNITION TEMPERATURE: Not combustible

UPPER EXPLOSIVE LIMIT: None

FLAMMABLE LIMITS: Not applicable

SPECIAL FIRE FIGHTING PROCEDURES: None

EXTINGUISHING MEDIA: Not combustible

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

HAZARDOUS COMBUSTION PRODUCTS: None

## **9. STABILITY AND REACTIVITY DATA**

STABILITY: Product is stable. Keep dry until used.

CONDITIONS TO AVOID: Unintentional contact with water. Contact with water will result in hydration and produces (caustic) calcium hydroxide.

INCOMPATIBILITY: Wet product is alkaline. As such, it is incompatible with acids, ammonium salts and aluminium metal.

HAZARDOUS DECOMPOSITION: Will not occur.

HAZARDOUS POLYMERIZATION: Will not occur.

## **10. PRECAUTIONS FOR HANDLING AND STORAGE**

### **HANDLING AND STORAGE**

Keep dry until used. Handle and store in a manner so that airborne dust does not exceed applicable exposure limits. Use adequate ventilation and dust collection. Use exposure control and personal protection methods as described in Section 12

SPILLS: Use dry clean-up methods that do not disperse dust into the air or entry into surface water. Material can be used if not contaminated. Place in an appropriate container for disposal or use. Avoid inhalation of dust and contact with skin and eyes. Use exposure control and personal protection methods as described in Section 12

## **11. TOXICOLOGICAL INFORMATION**

See Section 5 for Hazard Identification. No recognized unusual toxicity to plants and animals.

Conditions aggravated by exposure: Eye disease, Skin disorders and Chronic Respiratory conditions.

## **12. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **RESPIRATORY PROTECTION:**

Use local exhaust or general dilution ventilation to control dust levels below applicable exposure limits. Minimize dispersal of dust into the air.

If local or general ventilation is not adequate to control dust levels below applicable exposure limits or when dust causes irritation or discomfort, use MSHA/NIOSH (N95) approved respirators.

### **EYE PROTECTION:**

Wear safety glasses with side shields or goggles to avoid contact with the eyes. In extremely dusty environments and unpredictable environments, wear tight-fitting unvented or indirectly vented goggles to avoid eye irritation or injury. Contact lenses should not be worn when handling cement or cement containing products.

### **SKIN PROTECTION:**

Wear impervious abrasion- and alkali-resistant gloves, boots, long-sleeved shirt, long pants or other protective clothing to prevent skin contact. Promptly remove clothing dusty with dry product or clothing dampened with moisture mixed with product, and launder before re-use. If contact occurs, wash areas contacted by material with pH neutral soap and water.

## **13. DISPOSAL CONSIDERATIONS**

### **DISPOSAL:**

DO NOT DUMP INTO ANY SEWERS, ON THE GROUND OR INTO ANY BODY OF WATER. All disposal methods must be in compliance with all local laws and regulations of unusable or contaminated materials.

Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. Dispose of packaging/containers according to local regulations.

IF THIS MATERIAL AS PACKAGED, BECOMES A WASTE, IT DOES NOT MEET THE CRITERIA FOR A HAZARDOUS WASTE AS DEFINED BY THE US ENVIRONMENTAL PROTECTION AGENCY UNDER THE AUTHORITY OF THE RESOURCE CONSERVATION AND RECOVER ACT (40CFR 261), DISPOSE OF IN ACCORDANCE WITH LOCAL REGULATIONS.

## **14. TRANSPORTATION DATA**

This product is not hazardous under U.S. DOT or TDG regulations.

## **15. OTHER REGULATORY INFORMATION**

Status under US OSHA Hazard Communication Rule 29 CFR 1910.1200:

This product is considered a hazardous chemical under this regulation and should be included in the employer's hazard communication program.

Status under CERCLA/Superfund, 40 CFR 117 and 302: Not listed.

Hazard Category under SARA (Title III), Sections 311 and 312:

This product qualifies as a hazardous substance with delayed health effects.

Status under SARA (Title III), Section 313: Not subject to reporting requirements under Section 313.

Status under TSCA (as of May 1997): Some substances in this product are on the TSCA inventory list.

## **16. OTHER INFORMATION**

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. It is the user's obligation to determine the conditions of safe use of this product.