

## 1. PRODUCT IDENTIFICATION

**Company:** Global Trade Supplies  
Address: 7 Daisy Street Revesby, Sydney, New South Wales 2212 Australia  
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**Synonyms/Common Names:** Blue chalk - a mixture of naturally occurring mineral limestone and ultramarine pigment.

**Date Prepared:** April 01, 2016

**Date Revised:** April 01, 2016

## 2. INGREDIENTS

Principal ingredients are limestone and ultramarine pigment.

Material	wt%	Cas No.
Limestone, CaCO <sub>3</sub>	70-80	1317-65-3
Ultramarine (Sodium Alumino Sulphosilicate, Na <sub>6</sub> Al <sub>4</sub> Si <sub>6</sub> S <sub>4</sub> O <sub>20</sub> )	20-30	57455-37-5

## 3. PHYSICAL/CHEMICAL CHARACTERISTICS

**Specific Gravity (Water=1):** 2.60 - 2.64

**Vapor Pressure (mmHg):** N/A

**Melting Point:** N/A

**Vapor Density (Air = 1):** N/A

**Evaporation Rate:** N/A

**Solubility in Water:** Insoluble.

**Appearance and Odour:** Fine blue powder, no odour.

## 4. FIRE AND EXPLOSION HAZARD DATA

**Flash Point:** Non-flammable.

**Extinguishing Media:** As appropriate for surrounding combustibles.

**Flammable limits:** None.

**Special Fire Fighting Procedures:** In fires sustained by other combustible material, the product may undergo chemical change with the evolution of heat and toxic, irritant sulfur dioxide gas. Respiratory and eye protection required for fire fighting personnel.

**Unusual Fire and Explosion Hazards:** None.

## 5. REACTIVITY DATA

**Stability:** Stable under normal conditions up to 350°C.

**Conditions to Avoid:** Avoid contact with acids and other incompatible materials. Avoid excessive dust generation.

**Materials to Avoid:** Calcium carbonate ignites on contact with fluorine. It is incompatible with acids, alum, ammonium salts and mercury/hydrogen mixtures.

**Hazardous Decomposition or Byproducts:** Can produce calcium oxide if thermally oxidized. Contact with acids of ultramarine liberates hydrogen sulfide, a highly flammable toxic gas. At temperatures above 400°C in the presence of air, an exothermic reaction can occur with an evolution of Sulphur dioxide.

**Hazardous Polymerization:** Will not occur.

## 6. HEALTH HAZARD DATA

**Routes of Entry** Inhalation? Yes Skin? Yes Eyes? Yes Ingestion? Yes

**Health Hazards**

**(Acute and Chronic):**

Inhalation of dust may cause sneezing, coughing, and nose irritation. Excessive exposure above 1mg/m<sup>3</sup> can give mild pulmonary irritation. The abrasiveness of the material may cause skin irritation and eye irritation. The material may cause mild irritation of the gastrointestinal tract.

**Signs and Symptoms of Exposure:**

Inhalation: Excessive sneezing or coughing.  
Eye Contact: Mild irritation.  
Skin Contact: Dryness and/or mild irritation.  
Ingestion: Mild irritation. Not absorbed by the body.

**Medical Conditions Generally**

**Aggravated by Exposure:**

Pre-existing chronic respiratory, skin, or eye diseases may be aggravated. Smoking aggravates the effects of exposure.

**Emergency and First Aid**

**Procedures:**

For the material in eyes and skin contact, wash/flush immediately with plenty of water. If irritation persists, seek medical attention. For gross inhalation, remove person immediately to fresh air, give artificial respiration as needed, and seek medical attention as needed. If a large amount of material is ingested, and the person is conscious, give large quantities of water to induce vomiting and seek medical attention.

## 7. PRECAUTIONS FOR SAFE HANDLING AND USE

**Steps to be Taken in case**

**Material is Released or Spilled:**

For powdered materials, use dustless methods (vacuum) and place into closable container for disposal. Avoid contact with acids. Do not flush into drains. In case of an accidental major discharge into drains, flush with copious amounts of water to dilute any acidic conditions which may prevail.

**Waste Disposal Method:**

Dispose in accordance with local regulations. Chalk should not be washed into wastewater or drains. It should not be disposed of where there is a risk of contact with acids.

**Precautions to be Taken in**

**Handling and Storing:**

Do not mix with acids. Avoid breakage of bagged material or spills of bulk material. Store the material in a cool, dry area.

**Other Precautions:**

Use dustless systems for handling, storage, and clean up. Use adequate ventilation and dust collection. Practice good housekeeping. Do not permit dust to collect on walls, floors, sills, ledges, machinery, or equipment. Maintain and test ventilation and dust collection equipment. Wash or vacuum clothing which has become dusty. See also control measures in Section VIII.

## 8. CONTROL MEASURES

**Respiratory Protection:**

When airborne exposure limits are surpassed, wear relevant government agency approved respiratory equipment.

Choose the specific type of respirator by consulting the respirator manufacturer.

**Ventilation:**

Use sufficient local exhaust to reduce the level of dust to the government regulated limit.

**Mechanical:**

See "Other Precautions" under Section VII.

**Protective Gloves:**

Leather or impervious gloves.

**Eye Protection:**

Wear protective shield (safety glasses) or dust-tight goggles.

**Other Protective Clothing  
or Equipment:**

Optional.

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