

# Casting Plaster

**STATEMENT OF  
HAZARDOUS NATURE**

**AVOID EXPOSURE TO EXCESSIVE DUST AND  
ALWAYS WEAR AN APPROVED MASK WHEN  
SANDING.**

**COMPANY DETAILS:**

**Company** Winstone Wallboards Ltd  
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Penrose  
Auckland  
NEW ZEALAND  
**Telephone:** +64 (9) 633 0100  
**Facsimile:** +64 (9) 633 0101  
**Emergency Telephone Number:** +64 (3) 474 7000

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## IDENTIFICATION

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**PRODUCT INFORMATION:**

**Product Group:** Casting Plaster  
**Synonyms:** Black Label, Plaster Of Paris,  $\text{CaSO}_4 \cdot \frac{1}{2}\text{H}_2\text{O}$   
**Manufacturers Product Code:** 12499, 12664, 12665  
**Product Group:** Plaster Of Paris.  
**Chemical Family:** Mixture – Powder  
**Product Use:** Plasterboard Manufacture and general purpose Plaster of Paris for hobbies, etc.  
**Dangerous Goods Class** Not allocated

**INGREDIENTS**

Material	Content %	TLV $\text{mg m}^{-3}$	CAS No.
Calcium Sulphate Hemihydrate	98-100	10	13397-24-5
Calcium Sulphate Dihydrate	0-2	10	10101-41-4
Crystalline Silica(Total From Above)	<2.0	NE	14808-60-7

NE Not Established      NA Not Available

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## PHYSICAL DATA

<b>Appearance &amp; Odour:</b>	Off White to Grey Powder. Low Odour.
<b>Melting Point:</b>	1450 °C – decomposes.
<b>Solubility In Water:</b>	100 % Plaster Of Paris 0.15% Gypsum (Set Plaster)
<b>Specific Gravity (Water = 1):</b>	2.3 – 2.6
<b>pH:</b>	7.5 – 8.5
<b>Percent Volatile By Volume:</b>	NA
<b>Hardening Time:</b>	Varies. Check usage and/or product specification data. Contact manufacturer if in doubt.

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## HEALTH HAZARD DATA

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### HEALTH EFFECTS:

<b>Acute:</b>	<b>Swallowed:</b>	Unlikely to occur but may cause gastric disturbances if swallowed. Plaster of Paris is non-toxic, however, ingestion of a sufficient quantity could lead to mechanical obstruction of the gut, especially the pyloric region. See Emergency and First Aid - Ingestion below.
	<b>Eye:</b>	Direct contact can cause mechanical irritation of eyes. If burning, redness, itching, pain or other symptoms persist or develop, consult doctor.
	<b>Skin:</b>	When mixed with water, this material hardens and then slowly becomes hot. <b>DO NOT</b> attempt to make a cast enclosing any part of the body using this material. Failure to follow these instructions <b>may cause severe burns</b> that may require surgical removal of affected tissue. Direct, prolonged or repeated contact with the skin may cause irritation. Rubbing of this product against the skin can result in abrasions. Rinse with water until free of material to avoid abrasions, then wash skin thoroughly with mild soap and water. May dry skin. If irritation persists, consult doctor.
	<b>Inhaled:</b>	Inhalation of dusts from this product may irritate the nose, throat, lungs, and upper respiratory tract. Persons subjected to large amounts of this dust will be forced to leave area because of nuisance conditions such as coughing, sneezing and nasal irritation from dust. Laboured breathing may occur after excessive inhalation. If respiratory symptoms persist, consult doctor.
<b>Chronic:</b>	<b>Swallowed:</b>	None known.
	<b>Eye:</b>	None known.
	<b>Skin:</b>	The powder will dry the skin. Prolonged exposure may cause cracking of the skin.
	<b>Inhaled:</b>	Respirable dust may cause lung disease or cancer. Prolonged breathing of excessive dust may adversely affect lung function.

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### CARCINOGENICITY OF INGREDIENTS:

**Crystalline Silica**

**IARC:** Group 1

**NTP:** Anticipated

In June, 1997, the International Agency for Research on Cancer (IARC) classified crystalline silica (quartz and cristobalite) as a human carcinogen. In making the overall evaluation, the IARC Working Group noted that carcinogenicity in humans was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs.

IARC states that crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (Group 1).

### EMERGENCY & FIRST AID PROCEDURES:

<b>Treatment:</b>	<b>Swallowed:</b>	No harmful effects expected. No specific recommendation. If gastric disturbance occurs, call doctor. This product contains gypsum plaster. Plaster of Paris hardens when wetted and, if ingested, may result in obstruction of the gut, especially the pyloric region.
	<b>Eye:</b>	Immediately flush thoroughly with water for 15 minutes. If irritation persists, see doctor.
	<b>Skin:</b>	Wash with mild soap and water. A commercially available hand lotion may be used to treat dry skin areas. If skin has become cracked, take appropriate action to prevent infection and promote healing.
	<b>Inhaled:</b>	Remove to fresh air. Leave the area of dust exposure and remain away until coughing and other symptoms subside. Other measures are usually not necessary, however if conditions warrant, contact doctor.
<b>Target Organs:</b>		Eyes, skin, and respiratory system.
<b>Medical Conditions Which May Be Aggravated:</b>		Pre-existing upper respiratory and lung diseases such as, but not limited to, bronchitis, emphysema and asthma.
<b>Primary Route Of Entry:</b>		Inhalation; Eye and/or Skin contact.
<b>Facilities:</b>		Eye wash bottles/tap.

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### PRECAUTIONS FOR USE

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### REACTIVITY DATA:

<b>Stability:</b>	Stable
<b>Hazardous Polymerisation:</b>	Will not occur
<b>Conditions To Avoid:</b>	Incompatible with acids.
<b>Hazardous Decomposition Products:</b>	Above 1450 °C – CaO and SO <sub>2</sub> .

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### PERSONAL PROTECTION INFORMATION:

<b>Respiratory Protection:</b>	During mixing and general handling a two-strap type dust mask is suitable. During sanding of dried material use of an approved cartridge type mask is recommended.
<b>Ventilation:</b>	General or local ventilation during sanding of dried material.
<b>Protective Equipment:</b>	Safety Glasses.

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### SAFE HANDLING PROCEDURES

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#### SPILLS & DISPOSAL

<b>Spill/Leak Procedures:</b>	Scoop up. Wash down area before material dries.
<b>Waste Disposal Method:</b>	To standard landfill.

#### FIRE & EXPLOSION DATA

<b>Flash Point (Method Used):</b>	Non Combustible.
<b>Extinguishing Media:</b>	Use extinguishing media appropriate for surrounding fire.
<b>Special Fire Fighting Procedures:</b>	None
<b>Unusual Fire &amp; Explosion Hazard:</b>	None
<b>Special Fire Fighting Protective Equipment::</b>	None

#### STORAGE & TRANSPORT:

<b>Precautions In Storage:</b>	Keep dry. Dew point or other conditions causing presence of liquid will harden this material during storage.
<b>Precautions In Transport:</b>	Minimise exposures in accordance with good hygiene practice. During handling wear the appropriate respiratory, eye and skin protection if warranted per environmental conditions.

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### OTHER INFORMATION

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**KEEP OUT OF REACH OF CHILDREN**