

1. Identification of the Substance / Preparation and Company

Product Name & Use :

Fine Casting Plaster, Fine Casting Plus, Superfine Casting Plaster, Helix, Herculite No.2, Herculite Stone, Crystacal R, Crystacal RS, Crystacast, Crystacal Alpha K, Herculite Fibrefix, Teknicast, Keramicast LX, Keramicast

Plaster for use in the production of giftware, fibrous/GRG moulding and for general plaster casting

2. Hazards Identification

Description of hazard:

These products are not classified as dangerous/hazardous under Chemicals (Hazard Information and Packaging for Supply) Regulations 2002 (Chip 3).

Additional effects for people and environment:

This material will harden and become very hot when mixed with water. Avoid skin contact and do not attempt to make a cast enclosing any part of the body. If these instructions are not followed, severe burns could result leading to surgical removal of the affected skin or even amputation of the limb.

Powders may irritate eyes or sensitive skin

Dust may irritate respiratory system

3. Composition / Information on Ingredients

Chemical composition:

Principally calcium sulphate hemihydrate and natural constituents, which may include clay, limestone and trace amounts of quartz. Minor amounts (less than 1.0%) of other additives may be included

$\text{CaSO}_4 \times 0,5 \text{H}_2\text{O}$

CAS number 26499-65-0 (Plaster of Paris)

Einecs number 231-900-3

Dangerous substances:

CAS – No.	Name	Content	R - Phrase	Category of Danger	OEL
None	None	None	None	None	None

Refer to section 16 - Other Information for full details of R-Phrases and danger categories

Other Substances: Substances with Community Workplace Exposure Limits

CAS – No.	Name	Content	WEL Long Term (8hr) mg.m^{-3}	WEL Short Term (15 min) mg.m^{-3}
26499-65-0	Plaster of Paris	>90%	10 Inhalable 4 Respirable	None

4. First-Aid Measures

General instructions:

Medical attention is advisable if any symptoms persist

Inhalation:

Remove person to fresh air

Skin contact:

Flush skin with running water before washing with water and soap

Eye contact:

Wash the eyes, including opening eyelids, with plenty of clean water (minimum 15 minutes) and seek medical advice if irritation persists

Ingestion:

Wash out mouth and drink plenty of water

Specific information for Doctor:

None

5. Fire Fighting Measures

Suitable extinguishing media:

All fire extinguishers are suitable media observing normal fire fighting procedures

For safety reasons extinguishing media which must not be used:

None

Special exposure hazards arising from dust combustion or gas development:

At high temperatures (more than 1200 °C) sulphur trioxide will be produced

Special protective safety equipment for fire fighting:

None

Additional information:

The product will not support combustion but the packaging may burn

6. Accidental Release Measures

Personal precaution measures:

Control and suppress dust formation

Environmental precaution measures:

Prevent powder contaminating drains and watercourses

Prevent slurry contaminating drains and watercourses

Method of cleaning / sweeping up:

Mechanical pick up (vacuum) or sweep and shovel into bags

Refer to section 8 – Exposure Controls/Personal Protection

Refer to section 13 – Disposal Considerations

7. Handling & Storage

Handling:

Minimise and control dust when opening bags, mixing powder with water or sanding set plasters

Avoid prolonged or repeated contact with the skin or any eye contact

Wear protective clothing when mixing or working with powdered or wet plasters

Storage:

Supplied in bags, on pallets. Store in dry conditions and on firm level ground to maintain pallet stability

If manually handling use correct Manual Handling techniques

8. Exposure Controls / Personal Protection

Exposure Limit Values:

Components with exposure limit values (workplace exposure limits or biological limit values)

CAS – No.	Substance	WEL Long Term (8hr) mg.m ⁻³	WEL Short Term (15 min) mg.m ⁻³
26499-65-1	Calcium Sulphate (Plaster of Paris)	10 Inhalable 4 Respirable	-
-	Quartz (Silica)	0.1 Respirable	-

Exposure Controls:**1) Occupational exposure controls****Respiratory protection:**

Control dust formation and ventilate the area of work. If dust concentration is above occupational exposure limits then a respiratory filter/face mask to EN 149 :2001 FFP1 minimum should be worn

Hand protection:

To avoid prolonged or repeated wet contact wear impermeable gloves. To reduce the effect of hand contact apply a barrier cream

Eye protection:

If plaster contact or splashes are likely wear safety goggles to BS EN 166

Body protection:

To avoid skin contact wear protective overalls and footwear

2) Environmental exposure controls:

Gypsum based preparations are not known to have high potential to damage the environment

9. Physical and Chemical Properties

General Information:

Appearance: Solid in powder form, off white
Odour: Odourless, except occasionally slight musty odour

Important health, safety and environment information:

pH value 6-8 in 10% aqueous solution (distilled)
Relative Density Approx. 2.5 – 3.0 g / cm³
Solubility in water Approx. 2.0 g / L

Other information:

Thermal decomposition to CaSO₄ and H₂O approx. 140°C
Thermal decomposition to CaO and SO₃ approx. 1200°C

10. Stability & Reactivity

Under normal conditions of use these products are stable and unreactive:

Conditions to avoid:

No dangerous reactions are known

Materials to avoid:

None

Hazardous decomposition products:

None under normal conditions of use

When working with higher temperatures (over 1200 degree Centigrade) hazardous sulphur trioxide can develop.

11. Toxicological Information

Toxicological (health) effects:

No known available evidence indicating adverse toxicological health effects for acute toxicity, corrosivity/irritation, sensitisation, repeated-dose toxicity, mutagenicity, carcinogenicity, or reproductive toxicity.

Exposure:

Inhalation – Plaster dust may irritate respiratory system, no known long term effects
Ingestion- Small amounts of plaster or wet mix should not cause any significant reaction or long term effect
Skin contact- Plaster powder may dry skin leading to irritation if contact is prolonged or skin is sensitive
Eye contact – Powder or wet mix splashes may irritate by particulate in the short term

12. Ecological Information

No known negative ecological effects

Products are sparingly soluble in water, forming a solution/slurry and solidifying

13. Disposal Considerations

Packaging disposal:

Dispose of empty bags in accordance with local Environment Agency Regulations

Product disposal:

Dispose of product in accordance with local Environment Agency Regulations

14. Transportation Information

No special precautions exist with respect to transport
Not classified as hazardous for transport

15. Regulatory Information

Safety Data Sheet prepared in accordance with:

Chemicals (Hazard Information & Packaging for Supply) Regulations 2002 - CHIP 3
Approved Code of Practice (L130). "The compilation of safety data sheets" Third edition
The Control of Substances Hazardous to Health 1999 (COSHH)
COSHH Essentials: Easy steps to control chemicals

16. Other Information

Sources of key data used to compile Safety Data Sheet:

Approved classification and labelling guide – Guidance on regulations L131
Approved Supply List (L129) Seventh edition
HSE EH40 Occupational Exposure Limits (current edition)
This information reflects typical values and is not a product specification
No warranty is hereby expressed or implied

Note to user:

This safety data sheet does not constitute the users own workplace risk assessment, which is required under COSHH Regulations 1999