SAFETY DATA SHEET

1. Identification of the substance or mixture and of the supplier

1.1 GHS product identifier **CASTING PLASTER**

1.2 Other means of identification

Common name(s), synonym(s) CAST NR, CAST CR, CAST VN, CAST 70, Supercast NR, PEARL, REGULAR SP, DURACAST CM, CAST LS02

1.3 Recommendations and restrictions on the use of substances or mixtures

Recommended use Molds making for ceramics manufacturer

Recommended restrictions Use in accordance with manufacturer's recommendations.

1.4 Supplier's details

Distributor / Supplier Knauf Gypsum (Thailand) Limited

Address 80 Moo 5, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi 18140 THAILAND

Telephone +66 (0) 36374526-8

Poison Information Centre Ramathibodi Poison Center Faculty of Medicine Ramathibodi Hospital

Telephone 0-220-11084-6, Hotline: 1367 (24 Hrs.), Line ID: poisrequest

Email poisrequest@gmail.com
PoisonCenter.mahidol.ac.th

2. Hazards identification

2.1 GHS classification of substance or mixture, and national or regional information

Physical hazards Not classified.

Health hazards Not classified.

Environmental hazards Not classified.

2.2 GHS label elements

Hazard symbol(s) None.

Signal word None.

Hazard statement(s) None.

Precautionary statement(s)

Prevention Observe good industrial hygiene practices.

Response Get medical attention/advice if you feel unwell.

Storage Store as indicated in Section 7.

Disposal Dispose of in accordance with local, state, and federal regulations.

2.3 Other hazards which do not result in GHS classification None known.

Supplemental information None.

3. Composition/information on ingredients

3.2 Mixture

Chemical identity	Common name and synonym	CAS number and other unique identifiers	Concentration or concentration range
Calcium sulfate hemihydrate		10034-76-1	> 98
Crystalline silica (Quartz)		14808-60-7	< 0.6
Portland Cement		65997-15-1	≤ 0.5

Composition comments All concentrations are in percent by weight.

Respirable crystalline silica measured <0.1% (according to the NEN-EN 17289-3 method).

4. First-aid measures

4.1 Description of first-aid measures

Inhalation Dust irritates the respiratory system, and may cause coughing and difficulties in breathing. Move injured person into fresh air and keep person calm under observation. Get medical attention if symptoms persist.

Skin contact	Contact with dust: Rinse area with plenty of water. Get medical attention if irritation develops or persists.
Eye contact	Dust in the eyes: Do not rub eyes. Flush thoroughly with water. If irritation occurs, get medical assistance.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
4.2 Most important symptoms/effects, acute and delayed	Under normal conditions of intended use, this material does not pose a risk to health. Dust may irritate throat and respiratory system and cause coughing.
4.3 Indication of immediate medical considerations and important specific treatment that should be performed	Provide general supportive measures and treat symptomatically.
General advice	Ensure that medical personnel are aware of the material(s) involved.

5. Fire-fighting measures

5.1 Prohibited extinguishing media and suitable extinguishing media

Suitable extinguishing media	Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media	Not applicable.
5.2 Specific hazards arising from chemicals	Not a fire hazard.
5.3 Special protective equipment and precautions for fire-fighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Use standard firefighting procedures and consider the hazards of other involved materials.
Specific methods	Cool material exposed to heat with water spray and remove it if no risk is involved.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures	Wear appropriate protective equipment and clothing during clean-up. For personal protection, see section 8 of the SDS.
6.2 Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
6.3 Methods and materials for containment and cleaning up	Avoid the generation of dusts during clean-up. Collect dust using a vacuum cleaner equipped with HEPA filter. Large Spills: Wet down with water and dike for later disposal. Shovel the material into waste container. Following product recovery, flush area with water. Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal. For waste disposal, see section 13 of the SDS.

7. Handling and storage

7.1 Precautions for safe handling, use and storage	Minimise dust generation and accumulation. Provide appropriate exhaust ventilation at places where dust is formed. Practice good housekeeping.
7.2 Conditions for safe storage, including any incompatibilities	Store in tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see section 10 of the SDS).

8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Thailand. OELs (DLPW Notification Re: Occupational Exposure Limits for Hazardous Chemicals)

Components	Type	Value	Form
Crystalline silica (Quartz) (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable dust.

US. ACGIH Threshold Limit Values (TLV)

Components	Type	Value	Form
Calcium sulfate hemihydrate (CAS 10034-76-1)	TWA	10 mg/m3	Inhalable fraction.
Crystalline silica (Quartz) (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.

US. ACGIH Threshold Limit Values (TLV)

Components	Type	Value	Form
Portland Cement (CAS 65997-15-1)	TWA	1 mg/m3	Respirable fraction.

Biological limit values No biological exposure limits noted for the ingredient(s).

Exposure guidelines Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should be monitored and controlled.

8.2 Appropriate engineering controls Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. If engineering measures are not sufficient to maintain concentrations of dust particulates below the OEL (occupational exposure limit), suitable respiratory protection must be worn.

8.3 Personal protective measures

Eye/face protection Wear approved safety goggles.

Skin protection

Hand protection For prolonged or repeated skin contact use suitable protective gloves.

Other Wear suitable protective clothing.

Respiratory protection If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Wear respirator with dust filter.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

9.1 Appearance

Physical state Solid.

Form Powder.

Colour White to off-white.

9.2 Odor Low to no odour.

9.3 Odor threshold limit Not available.

9.4 pH 6 - 8

9.5 Melting point/freezing point Not available.

9.6 Initial boiling point and boiling range Not available.

9.7 Flash point Not available.

9.8 Evaporation rate Not available.

9.9 Flammability (solid, gas) Not flammable.

9.10 Upper/lower flammability or explosive limits

Explosive limit - lower (%) Not available.

Explosive limit – upper (%) Not available.

9.11 Vapor pressure Not available.

9.12 Vapor density Not available.

9.13 Relative density Not available.

9.14 Solubility(ies)

Solubility (water) 0.15 - 0.4 g/100 g

9.15 Partition coefficient: n-octanol/water Not available.

9.16 Auto-ignition temperature Not available.

9.17 Decomposition temperature Not available.

9.18 Viscosity Not available.

Other information

Bulk density 820 - 1100 kg/m³

Explosive properties Not explosive.

Oxidising properties Not oxidising.

10. Stability and reactivity

10.1 Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

10.2 Chemical stability Material is stable under normal conditions.

10.3 Possibility of hazardous reactions No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid Contact with incompatible materials.

10.5 Incompatible materials Strong oxidising agents.

10.6 Hazardous decomposition products No hazardous decomposition products are known.

11. Toxicological information

11.1 Information on likely routes of exposure

Inhalation Dust may irritate respiratory system. Prolonged inhalation may be harmful.

Skin contact Dust or powder may irritate the skin.

Eye contact Dust may irritate the eyes.

Ingestion May cause discomfort if swallowed.

11.2 Symptoms related to physical, chemical and toxicological characteristics Dusts may irritate the respiratory tract, skin and eyes. Coughing.

11.3 Delayed and immediate effects, including chronic effects from short- and long-term exposure Occupational exposure to the substance or mixture may cause adverse effects.

11.4 Numerical values of toxicity

Acute toxicity Not expected to be acutely toxic.

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye irritation Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitisation

Respiratory sensitisation Not a respiratory sensitiser.

Skin sensitisation This product is not expected to cause skin sensitisation.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity Not classifiable as to carcinogenicity to humans.

ACGIH Carcinogens

Crystalline silica (Quartz) (CAS 14808-60-7)	A2 Suspected human carcinogen.
Portland Cement (CAS 65997-15-1)	A4 Not classifiable as a human carcinogen.

IARC. Monographs on the evaluation of carcinogenic risks to humans

Crystalline silica (Quartz) (CAS 14808-60-7)	1 Carcinogenic to humans.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity - single exposure Not classified.

Specific target organ toxicity - repeated exposure Not classified.

Aspiration hazard Not an aspiration hazard.

12. Ecological information

12.1 Ecological toxicity The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components		Species	Test Results
Calcium sulfate hemihydrate (CAS 10034-76-1)			
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas)	> 1970 mg/l, 96 hours

12.2 Persistence and degradability No data is available on the degradability of this product.

12.3 Bioaccumulative potential No data available.

12.4 Mobility in soil	No data available.
12.5 Other adverse effects	No data available.

13. Disposal considerations

Disposal instructions	Dispose in accordance with applicable federal, state, and local regulations. Recycle responsibly.
Local disposal regulations	Dispose of in accordance with local regulations.
Waste from residues / unused products	Dispose in accordance with local regulations.
Contaminated packaging	Dispose of in accordance with local regulations.

14. Transport information

ADR

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.

15. Regulatory information

Safety, health and environmental regulation/legislation specific for the substance or mixture

Hazardous substances in the work place (DLPW Notification Re: List of Hazardous Chemicals, Royal Gazette, Vol. 130 Part 185 Ngor, issued December 20, B.E.2556 (2013))

Respirable dust (CAS 10034-76-1)
Respirable dust (CAS 65997-15-1)

Thailand. Explosive Substances & Precursors (Ministry of Defense Notification Re: Arms Subject to Imports License, B.E.2551 (2008)), as amended

Not regulated.

Thailand. Reportable Hazardous Substances (Notification of Ministry of Industry Re: Bases respecting report of quantity of hazardous materials under Department of Industrial Works, B.E. 2547 (2004))

Not regulated.

International regulations

Basel Convention

Calcium sulfate hemihydrate (CAS 10034-76-1)

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date	13-December-2024
Revision date	-
Version No.	01

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