

SAFETY DATA SHEET

1. Identification

Product identifier Alpha Plaster

Other means of identification

SDS number 52000000004

Additional Products Alpha Mix, Alpha SC, Alpha T-NR, Alpha A-NR, Alpha P-NR

Synonyms Plaster

Recommended use Mold making material for ceramic industry.

Recommended restrictionsUse in accordance with manufacturer's recommendations.

Manufacturer / Importer / Supplier / Distributor information

Company name KNAUF PLASTERS CO., LTD. Address29 Moo 7 Thaboonmee, Ko Chan,

Chonburi 20240 THAILAND

Telephone 66-38-103-500

Website

Emergency phone number

2. Hazard(s) identification

Physical hazards Not classified.
Health hazards Not classified.
Environmental hazards Not classified.
OSHA defined hazards Not classified.

Label elements

Hazard symbol None.

Signal word None.

Hazard statement None.

Precautionary statement

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.

Hazard(s) not otherwise

Classified (HNOC)

None known.

3. Composition/information on ingredients

Mixtures

Chemical name CAS number %

Plaster of Paris (Calcium 26499-65-0 > 95

Sulfate Hemihydrate CAS 10034-76-1)

Composition Comments All concentrations are in percent by weight unless ingredient is a gas.

4. 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.



Most important

delayed

Plaster of Paris hardens and if ingested may result in stomach and intestinal Ingestion

blockage. Drinking gelatin solutions or large volumes of water may delay setting.

Under normal conditions of intended use, this product is not expected to be a health

symptoms/effects, acute and risk. Dust may irritate throat and respiratory system and cause coughing.

Indication of immediate

medical attention and special

treatment needed

Provide general supportive measures and treat symptomatically.

General Information Ensure that medical personnel are aware of the material(s) involved.

5. Fire-fighting measures

Suitable extinguishing media Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media Not applicable. Specific hazards arising from Not a fire hazard.

the chemical

Special protective equipment and precautions for firefighters Selection of respiratory protection for firefighting follow the general fire precautions indicated in the workplace. 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

Personal precautions, See Section 8 of the SDS for Personal Protective Equipment.

protective equipment and emergency procedures

Methods and materials for containment and cleaning up Vacuum up the spilled material. Vacuums used for this purpose should be equipped

with HEPA filters. Containers must be labeled. Collect in approved containers and

Environmental precautions Avoid discharge to drains, sewers, and other water systems.

7. Handling and storage

Precautions for safe handling Minimize dust production when mixing, or opening and closing bags. Avoid inhalation

seal securely. For waste disposal, see Section 13 of the SDS.

of dust. Wear appropriate personal protective equipment. Wash hands after handling. Observe good industrial hygiene practices and use appropriate lifting techniques.

Conditions for safe storage, Including any incompatibilities Store in a cool, dry, well-ventilated place. Store away from incompatible materials.

Avoid contact with acids, water, and moisture.

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	Form
Plaster of Paris (Calcium	PEL	5 mg/m3 Respirable fraction.	
Sulfate Hemihydrate CAS			
10034-76-1) (CAS 26499-65-0)			
		15 mg/m3	Total dust.
US. ACGIH Threshold Limit Value	S		
Components	Туре	Value	Form
Plaster of Paris (Calcium	TWA	10 mg/m3	Inhalable fraction.
Sulfate Hemihydrate CAS			
10034-76-1) (CAS 26499-65-0)			



US. NIOSH: Pocket Guide to Chemical Hazards

Component Type Value Form

Plaster of Paris (Calcium Sulfate Hemihydrate CAS 10034-76-1) (CAS 26499-65-0)

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

TWA

Appropriate engineering Provide sufficient ventilation for operations causing dust formation. Observe

control occupational exposure limits and minimize the risk of exposure.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear approved safety goggles.

Skin protection

Hand protection It is a good industrial hygiene practice to minimize skin contact. For prolonged or

repeated skin contact use suitable protective gloves.

Other Normal work clothing (long sleeved shirts and long pants) is recommended.

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), and approved respirator must be worn. Use a NIOSH/MSHA approved air purifying respirator as needed to control exposure. Consult with respirator manufacturer to determine respirator selection, use, and limitations. Use positive pressure, air-supplier respirator for uncontrolled releases or when air purifying respirator limitations may be exceeded. Follow respirator protection

5 mg/m3 Respirable.

program requirements (OSHA 1910.134 and ANSI Z88.2) for all respirator use.

Thermal hazards None

General hygiene Always observe good personal hygiene measures, such as washing after handling the consideration material and before eating, drinking, and/or smoking. Routinely wash work clothing

and protective equipment separately from regular wash. Observe any medical

surveillance requirements.

9. Physical and chemical properties

Appearance

Physical state Solid.
Form Powder.

Color White to off-white.

Odor Low to no odor.

Odor threshold Not applicable.

pH 6-8

Melting point/freezing point Not applicable.

Not applicable.

Initial boiling point and boiling

Not applicable.

range

Flash point Not applicable.

Evaporation rate Not applicable.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

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Flammability limit – lower Not applicable.

(%)

Flammability limit – upper Not applicable.

(%)

Explosive limit – lower (%) Not applicable.
Explosive limit – upper (%) Not applicable.



Vapor density Not applicable.

Relative density 2.95 (H2O=1)

Solubility(ies)

Solubility (water) 0.15 – 0.4 g/100 g (H2O)

Partition coefficient Not applicable.

(n-octanol/water)

Auto-ignition temperatureNot applicable.Decomposition temperature2642 °F (1450 °C)ViscosityNot applicable.

Other information

Bulk density 55 – 70 lb/ft³
Particle size Varies.
VOC (Weight %) 0 %

10. Stability and reactivity

Reactivity Not Available

Chemical stabilityMaterial is stable under normal conditions. **Possibility of hazardous**Hazardous polymerization does not occur.

reactions

Conditions to avoid When mixed with water this product can become very hot. Encasing or making molds

Of any body part can cause serious burns that may require surgical removal of affected

tissue and even amputation of encased body part.

Incompatible materials Acids. Exposure to water and acids must be supervised because the reactions are

vigorous and produce large amounts of heat.

Hazardous decomposition

products

Calcium oxides. Sulfur oxides.

11. Toxicological information

Information on likely routes of exposure

Ingestion Ingestion may cause irritation and stomach discomfort.

InhalationAirborne dust may irritate throat and upper respiratory system causing coughing.Skin contactUnder normal conditions of intended use, this product does not pose a skin hazard.

Eye contact Direct contact with airborne particulates may cause temporary irritation.

Symptoms related to theDust may irritate eyes and mucous membranes of the nose, throat and upper

physical, chemical and respiratory system causing sneezing and/or coughing.

toxicological characteristics

Information on toxicological effects

Acute toxicity Not expected to be a hazard under normal conditions of intended use.

Skin corrosion/irritation Not a skin irritant.

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

irritation

Respiratory or skin sensitization

Respiratory sensitization Not expected to cause respiratory sensitization based on non-skin sensitization

History.

Skin sensitization Not a skin sensitizer, Plaster of Paris has displayed little sensitization potential.

Germ cell mutagenicity No evidence of mutagenicity found in Ames bacterial tests.

Carcinogenicity This material is not classified as a carcinogen by IARC, ACGIH, NTP or OSHA.

Reproductive toxicityNot expected to be a reproductive hazard. **Specific target organ toxicity** –
No data available, but none expected.

single exposure

Specific target organ toxicity – No data available, but none expected.

Repeated exposure



Chronic effects

Aspiration hazard

Due to the physical form of the product it is not an aspiration hazard.

No other sp3ecific acute of chronic health impact noted.

12. Ecological information

EcotoxicityThe product components are 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

Plaster of Paris (Calcium Sulfate Hemihydrate CAS 10034-76-1) (CAS26499-65-0)

Aquatic

Fish LC50 Fathead minnow (Pimephales promelas) > 1970 mg/l ,96 hours

Persistence and degradability Calcium sulfate dissolves in water forming calcium and sulfate ions.

Bioaccumulative potential Bioaccumulation is not expected.

Mobility in soilNo data availableOther adverse effectsNone expected.

13. Disposal considerations

Disposal instructionsDispose in accordance with applicable federal, state, and local regulations. Recycle

Dispose of in accordance with local regulations.

responsibly.

Local disposal regulations Dispose of in accordance with local regulations.

Hazardous waste code Not regulated.

Waste from residues / unused

products

Contaminated packaging Dispose on if accordance with local regulations.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to

Not applicable. This product is a solid. Therefore, bulk transport is governed by IMSBC

Annex II of MARPOL 73/78 and code.

the IBC Code

15. Regulatory information

US federal regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard – No

Delayed Hazard – No Fire Hazard – NO Pressure Hazard – No Reactivity Hazard – No

Alpha Plaster



SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No

chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

US State regulations

US. Massachusetts RTK – Substance List

Plaster of Paris (Calcium Sulfate Hemihydrate CAS 10034-76-1) (CAS 26499-65-0)

US. News Jersey Worker and Community Right-to-Know Act

Plaster of Paris (Calcium Sulfate Hemihydrate CAS 10034-76-1) (CAS 26499-65-0)

US. Pennsylvania Worker and community Right-to-Know Law

Plaster of Paris (Calcium Sulfate Hemihydrate CAS 10034-76-1) (CAS 26499-65-0)

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

This product does not contain a chemical known to the state of California to cause cancer, birth defects or other reproductive harm.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

International Inventories

Country(s) or regionInventory nameOn inventory (yes/no)*United States & Puerto RicoToxic Substances Control Act (TSCA) InventoryYes

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

Issue date02-May-2017Revision date01-Jan-2023

Version # 02

Further information Plaster of Paris: Is classified as a hazardous substance but is generally considered a safe

material for routine use. When plaster of Paris is used responsibly it is not considered as a dangerous material. However, when mixed with water this product can become very hot. DO NOT attempt to make a cast enclosing any part of the body. Encasing any body part can cause serious burns and even amputation of the encased body part.

Disclaimer This information is provided without warranty. The information is believed to be

correct. This information should be used to make an independent determination of the

methods to safeguard workers and the environment.

Alpha Plaster

^{*}A "Yes" indicates this product complies 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).