

SAFETY DATA SHEET

| 1. Identification Product identifier | Dental Plaster | | |
|---|--|--------------|--|
| Other means of identification SDS number Additional Products | 5200000004 Atlas, Atlas Dur, Comet, Die Stone, Fine White, Galaxy, Planet, Sirius, (Any color) | Stone, Virgo | |
| Synonyms Recommended use Recommended restrictions Manufacturer / Importer / Supplie Company name Address Telephone Website | Dental Plaster Dental application Use in accordance with manufacturer's recommendations. r / Distributor information KNAUF PLASTERS CO., LTD. 29 Moo 7 Thaboonmee, Ko Chan, Chonburi 20240 THAILAND 66-38-103-500 | | |
| 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 fel unwell. | | |
| Storage | Store as indicated in Section 7. | | |
| Disposal | Dispose of in accordance with local, state, and federal regulations. | | |
| Hazard(s) not otherwise | None known. | | |
| Classified (HNOC) | | | |
| 3. Composition/information | on ingredients | | |
| Mixtures | | | |
| Chemical name | CAS number | % | |
| Plaster of Paris (Calcium Sulfate Hemihydrate CAS 10034-76-1) | 26499-65-0 | > 95 | |

Composition CommentsAll concentrations are in percent by weight unless ingredient is a gas.4. First-aid measuresDust 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 contactContact with dust: Rinse area with plenty of water. Get medical attention if irritation
develops or persists.



Ingestion

Plaster of Paris hardens and if ingested may result in stomach and intestinal blockage. Drinking gelatin solutions or large volumes of water may delay setting. Most important 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. delayed Provide general supportive measures and treat symptomatically. Indication of immediate medical attention and special treatment needed **General Information** Ensure that medical personnel are aware of the material(s) involved.

medical assistance.

Dust in the eyes: Do not rub eyes. Flush thoroughly with water. If irritation occurs, get

E Eiro fighting moscuros

| 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 | Selection of respiratory protection for firefighting: follow the general fire precautions |
| and precautions for firefighters | indicated in the workplace. Self-contained breathing apparatus and full protective |
| | clothing must be worn in case of fire. |
| Fire-fighting equipment / | Use standard firefighting procedures and consider the hazards of other involved |
| instructions | materials. |
| Specific methods | Cool material exposed to heat with water spray and remove it if no risk is involved. |
| 6. Accidental release measu | res |
| Personal precautions, | See Section 8 of the SDS for Personal Protective Equipment. |
| protective equipment and emergency procedures | |
| Methods and materials for | Vacuum up the spilled material. Vacuums used for this purpose should be equipped |

Environmental precautions

7. Handling and Storage

containment and cleaning up

Precautions for safe handling Minimize dust production when mixing, or opening and closing bags. Avoid inhalation 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, Store in a cool, dry, well-ventilated place. Store away from incompatible materials. Including any incompatibilities Avoid contact with acids, water, and moisture.

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

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

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

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 Resp | irable fraction. |
| Sulfate Hemihydrate CAS | | | |
| 10034-76-1) (CAS 26499-65-0) | | | |
| | | 15 mg/m3 | Total dust. |
| US. ACGIH Threshold Limit Values | | | |
| 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 | Туре | Value | Form |
|---------------------------------|---|--------------------------|----------------------------|
| Plaster of Paris (Calcium | TWA | 5 mg/m3 | Respirable. |
| Sulfate Hemihydrate CAS | | | |
| 10034-76-1) (CAS 26499-65-0) | | 10 mg/m3 | Total |
| Biological Limit values | No biological exposure limits noted | for the ingredient(s). | |
| 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 equipmer | nt | |
| Eye/face protection | Wear approved safety goggles. | | |
| Skin protection | | | |
| Hand protection | Hand protection It is a good industrial hygiene practice to minimize skin contact. Fo | | ntact. For prolonged or |
| | repeated skin contact use suitable p | protective gloves. | |
| Other | Normal work clothing (long sleeved | shirts and long pants) i | s recommended. |
| Respiratory protection | If engineering controls do not maint | ain airborne concentra | tions 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 | | |
| | program requirements (OSHA 1910.134 and ANSI Z88.2) for all respirator use. | | |
| Thermal hazards | None. | | |
| General hygiene | Always observe good personal hygie | ene measures, such as | washing after handling the |
| consideration | material and before eating, drinking | g, and/or smoking. Rout | inely wash work clothing |
| | and protective equipment separatel | ly from regular wash. O | bserve 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. | | |
| рН | 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 | | | |
| 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) | |
|--|------------|
| Explosive limit – upper (%)Not applicable.Vapor densityNot applicable.Relative density2.95 (H2O=1) | |
| Vapor densityNot applicable.Relative density2.95 (H2O=1) | |
| Relative density2.95 (H2O=1) | |
| Solubility(ies) | |
| | |
| Solubility (water) 0.15 – 0.4 g/100 g (H2O) | |
| Partition coefficient Not applicable. | |
| (n-octanol/water) | |
| Auto-ignition temperature Not applicable. | |
| Decomposition temperature 2642 °F (1450 °C) | |
| Viscosity Not applicable. | |
| Other information | |
| Bulk density 55 – 70 lb/ft ³ | |
| Particle size Varies. | |
| VOC (Weight %) 0 % | |
| 10. Stability and reactivity | |
| Reactivity Not Available | |
| Chemical stability Material 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 ma | king molds |
| Of any body part can cause serious burns that may require surgical removal | - |
| tissue and even amputation of encased body part. | |
| Incompatible materials Acids. Exposure to water and acids must be supervised because the reaction | ons are |
| vigorous and produce large amounts of heat. | |
| Hazardous decomposition Calcium oxides. Sulfur oxides. products | |

11. Toxicological information

Information on likely routes of exposure

| Ingestion | Ingestion may cause irritation and stomach discomfort. |
|-------------------------------------|--|
| Inhalation | Airborne dust may irritate throat and upper respiratory system causing coughing. |
| Skin contact | Under 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 the | Dust 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 effect | ts |
| 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 toxicity | Not 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 | |
| Aspiration hazard | Due to the physical form of the product it is not an aspiration hazard. |
| Chronic effects | No other sp3ecific acute of chronic health impact noted. |
| | |

12. Ecological information

Components

The 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.

Species

Test Results

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

Aquatic
FishLC50Fathead minnow (Pimephales promelas) > 1970 mg/l ,96 hoursPersistence and degradabilityCalcium sulfate dissolves in water forming calcium and sulfate ions.Bioaccumulative potentialBioaccumulation is not expected.Mobility in soilNo data availableOther adverse effectsNone expected.

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. |
| Hazardous waste code | Not regulated. |
| Waste from residues / unused | Dispose of in accordance with local regulations. |
| 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 toNot applicable. This product is a solid. Therefore, bulk transport is governed by IMSBCAnnex II of MARPOL 73/78 andcode.

the IBC Code

15. Regulatory information

| US federal regulations | This product is a "Hazardous Chemical" as difined by the OSHA Hazard Communication |
|-------------------------------|--|
| | Standard 29 CFR 1910.1200 (OSHA) and 8 CCR § 5194 (Cal/OSHA). |
| TSCA Section 12(b) Export Not | tification (40 CFR 707, Subpt. D) |
| Not regulated. | |
| US. OSHA Specifically Regulat | ed Substances (29 CFR 1910.1001-1050) |
| Not listed. | |
| CERCLA Hazardous Substance | e List (40 CFR 302.4) |
| Not listed. | |
| Superfund Amendments and Rea | authorization Act of 1986 (SARA) |
| Hazard categories | Immediate Hazard – No |
| | Delayed Hazard – No |



| NAAU | | |
|--|--|---|
| - | Fire Hazard – NO | |
| | Pressure Hazard – No | |
| | Reactivity Hazard – No | |
| SARA 302 Extremely hazardo | • | |
| Not listed. | | |
| SARA 311/312 Hazardous | No | |
| chemical | | |
| SARA 313 (TRI reporting) | | |
| Not regulated. | | |
| Other federal regulations | | |
| Clean Air Act (CAA) Section 11 | 2 Hazardous Air pollutants (HAPs) List | |
| Not regulated. | | |
| Clean Air Act (CAA) Section 11 | 2(r) Accidental Release Prevention (40 CFR 6 | i8.130) |
| Not regulated. | | |
| Safe Drinking Water Act | Not regulated. | |
| (SDWA) | | |
| US State regulations | | |
| US. Massachusetts RTK – Subs | | |
| | Sulfate Hemihydrate CAS 10034-76-1) (CAS 26 | 5499-65-0) |
| - | Community Right-to-Know Act | |
| | Sulfate Hemihydrate CAS 10034-76-1) (CAS 26 | 5499-65-0) |
| - | community Right-to-Know Law | |
| | Sulfate Hemihydrate CAS 10034-76-1) (CAS 26 | 5499-65-0) |
| US. Rhode Island RTK | | |
| Not regulated. | | |
| US. California Proposition 65 | | |
| This product does not co reproductive harm. | ntain a chemical known to the state of Califo | rnia to cause cancer, birth defects or other |
| US – California Propositi | on 65 – Carcinogens & Reproductive Toxicity | (CRT): Listed substance |
| Not listed. | | |
| International Inventories | | |
| Country(s) or region | Inventory name | On inventory (yes/no)* |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Invent | ory Yes |
| | es with the inventory requirements administered by the | |
| A "No" indicates that one or more cor country(s). | nponents of the product are not listed or exempt from li | isting on the inventory administered by the governing |
| 16. Other information, inclu | iding date of preparations or last rev | ision |
| Issue date | 02-May-2017 | |
| Revision date | 11-Jan-2023 | |

| Revision date | 11-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. |