USG

SAFETY DATA SHEET

1. Identification

Product identifier USG® Dental Plasters

Other means of identification

SDS number 52000000137

Additional Products Dental Impression Plaster - 34 HC, USG® Dental Impression Plaster, USG® Dental Plaster -

Laboratory, USG® Dental Plaster - BETA DEN Special

Synonyms Dental Plaster

Recommended useGeneral Purpose Dental Plaster.

Recommended restrictionsUse in accordance with manufacturer's recommendations.

Manufacturer/Importer/Supplier/Distributor information

Company name United States Gypsum Company

Address 550 West Adams Street

Chicago, Illinois 60661-3637

Telephone 1-800-874-4968
Website www.usg.com
Emergency phone number 1-800-507-8899

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Not classified.

OSHA defined hazards Not classified.

Label elements

Hazard symbolNone.Signal wordNone.Hazard statementNone.

Precautionary statement

PreventionObserve good industrial hygiene practices.ResponseGet 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 Sulfate Hemihydrate CAS 10034-76-1)	26499-65-0	> 95

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 contactContact 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.

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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

symptoms/effects, acute and

delayed

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

Unsuitable extinguishing

media

Use fire-extinguishing media appropriate for surrounding materials.

Not applicable.

Specific hazards arising from

and precautions for firefighters

the chemical

Special protective equipment

Not a fire hazard.

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 methodsCool material exposed to heat with water spray and remove it if no risk is involved.

General fire hazards No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

See Section 8 of the SDS for Personal Protective Equipment.

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

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

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US. NIOSH: Pocket Guide to Chemical Hazards

ComponentsTypeValueFormPlaster of Paris (Calcium
Sulfate Hemihydrate CAS
10034-76-1) (CAS
26499-65-0)TWA5 mg/m3Respirable.10 mg/m3Total

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

Appropriate engineering controls

Provide sufficient ventilation for operations causing dust formation. Observe 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), an 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-supplied 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 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 separately from regular wash. Observe any medical surveillance requirements.

9. Physical and chemical properties

Appearance

Physical stateSolid.FormPowder.

Color White to off-white.

Odor Low to no odor.

Odor threshold Not applicable.

oH 6 - 8

Melting point/freezing point

Not applicable.

Not applicable.

ivoi applicable.

Initial boiling point and boiling

range

Not applicable.

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.

(/0)

Explosive limit - lower (%) Not applicable.

Explosive limit - upper (%) Not applicable.

Vapor pressureNot applicable.Vapor densityNot applicable.Relative density2.96 (H2O=1)

Solubility(ies)

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

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Partition coefficient

Not applicable.

(n-octanol/water)

Auto-ignition temperature Not applicable.

Decomposition temperature 2642 °F (1450 °C)

Viscosity Not applicable.

Other information

Bulk density55 - 70 lb/ft³Particle sizeVaries.VOC (Weight %)0 g/l

10. Stability and reactivity

Reactivity The product is stable and non reactive under normal conditions of storage and transport.

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 making moulds 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

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.

Ingestion Ingestion may cause irritation and stomach discomfort.

Symptoms related to the physical, chemical and toxicological characteristics

Dust may irritate eyes and mucous membranes of the nose, throat and upper respiratory system

causing sneezing and/or coughing.

Information on toxicological effects

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

Skin corrosion/irritationNot 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 mutagenicityNo evidence of mutagenicity found in Ames bacterial tests.

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

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity

Not expected to be a reproductive hazard.

Specific target organ toxicity single exposure

No data available, but none expected.

Specific target organ toxicity -

repeated exposure

No data available, but none expected.

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

Chronic effects No other specific acute or chronic health impact noted.

Further information No additional adverse health effects noted.

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12. Ecological information

Ecotoxicity 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.

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

Bioaccumulative potential Bioaccumulation is not expected.

Mobility in soilNo data available.Other adverse effectsNone expected.

13. Disposal considerations

Disposal instructionsDispose 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

products

Dispose of in accordance with local regulations.

Contaminated packaging Dispose of in 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 code.

Annex II of MARPOL 73/78 and

the IBC Code

15. Regulatory information

US federal regulations

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

Not regulated.

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

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)

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US state regulations

US. Massachusetts RTK - Substance List

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US. New 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.

International Inventories

Country(s) or region On inventory (yes/no)* Inventory name United States & Puerto Rico

Toxic Substances Control Act (TSCA) Inventory *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).

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

23-December-2014 Issue date

Revision date 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.

NFPA Ratings: Health: 1 Flammability: 0 Physical hazard: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

NFPA ratings



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

information should be used to make an independent determination of the methods to safeguard

workers and the environment.

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