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 use General 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 symbol None.
Signal word None.
Hazard statement None.

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.

Supplemental information None.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%
Plaster of Paris (Calcium Sulfate	26499-65-0	> 95
Hemihydrate CAS 10034-76-1)		

Composition comments All concentrations are in percent by weight. The exact concentrations of the above listed chemicals

are being withheld as a trade secret.

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.

USG® Dental Plasters SDS US

922145 Version #: 02 Revision date: 31-July-2024 Issue date: 23-December-2014

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

assistance.

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

irritate throat and respiratory system and cause coughing.

gelatin solutions or large volumes of water may delay setting.

Most important

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically.

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

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Use fire-extinguishing media appropriate for surrounding materials.

Not applicable.

Specific hazards arising from

the chemical

Not a fire hazard.

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

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

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.

General fire hazards No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear appropriate protective equipment and clothing during clean-up. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. 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. Collect in approved containers and seal securely. Containers must be labeled. 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. Avoid contact with acids, water, and moisture. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

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. OSHA Table Z-3 Permissible	Exposure Limits (PEL) for Mine	eral Dusts (29 CFR 1910.1000	0)
US. OSHA Table Z-3 Permissible Components	Exposure Limits (PEL) for Mine Type	eral Dusts (29 CFR 1910.1000 Value)) Form
	` ` `	•	Form
Components Plaster of Paris (Calcium Sulfate Hemihydrate CAS 10034-76-1) (CAS	Туре	Value	•

USG® Dental Plasters SDS US

922145 Version #: 02 Revision date: 31-July-2024 Issue date: 23-December-2014

US. OSHA Table Z-3 Permissible Exposure Limits (PEL) for Mineral Dusts (29 CFR 1910.1000)

Components Value **Form Type** 15 mppcf Respirable fraction.

US. ACGIH Threshold Limit Values (TLV)

Components **Type** 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

Form Components Value Type 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 occupational

exposure limits and minimize the risk of exposure. controls

Individual protection measures, such as personal protective equipment

Eye/face protection Wear approved safety goggles.

Skin protection

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

contact use suitable protective gloves.

Skin protection

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 respirator

if there is a risk of exposure to dust/fume at levels exceeding the exposure limits.

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

Solid. Physical state Powder. **Form**

Color White to off-white. Odor Low to no odor. **Odor threshold** Not applicable.

6 - 8 Ηq

Melting point/freezing point Not applicable.

Not applicable.

Initial boiling point and boiling

range

Not applicable.

Flash point Not applicable. **Evaporation rate** Not applicable. Not applicable. Flammability (solid, gas)

Upper/lower flammability or explosive limits Not applicable. Explosive limit - lower (%)

922145 Version #: 02 Revision date: 31-July-2024

USG® Dental Plasters SDS US Issue date: 23-December-2014

3/7

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)

Partition coefficient Not applicable.

(n-octanol/water)

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

Other information

Bulk density55 - 70 lb/ft³Particle sizeVaries.VOC0 g/l

10. Stability and reactivity

ReactivityThe 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.

Hazardous decomposition

products

Calcium oxides. Sulfur oxides.

11. Toxicological information

Information on likely routes of exposure

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.

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 acutely toxic.

Skin corrosion/irritation Not a skin irritant.

Serious eye damage/eye

irritation

Direct contact with eyes may cause temporary 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 data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

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

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

NTP Report on Carcinogens

Not listed.

USG® Dental Plasters SDS US

922145 Version #: 02 Revision date: 31-July-2024 Issue date: 23-December-2014

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

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

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

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.

Components Species Test Results

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

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 soil No data available.

Mobility in soil No data available

Other adverse effects None 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 The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose 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 Annex II of MARPOL 73/78 and the IBC Code Not applicable. This product is a solid. Therefore, bulk transport is governed by IMSBC code.

15. Regulatory information

US federal regulations

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

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Toxic Substances Control Act (TSCA)All components of the mixture on the TSCA 8(b) inventory are designated "active".

USG® Dental Plasters SDS US

Superfund Amendments and Reauthorization Act of 1986 (SARA)

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. 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

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

California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov. 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	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	No

^{*}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).

Toxic Substances Control Act (TSCA) Inventory

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

Issue date23-December-2014Revision date31-July-2024

Version # 02

United States & Puerto Rico

USG® Dental Plasters SDS US

Yes

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



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.

USG® Dental Plasters SDS US

Issue date: 23-December-2014