SAFETY DATA SHEET

1. Identification

Product identifier PROSTONE Dental Gypsum Cement

Other means of identification

SDS number 5200000011

PROSTONE SM, PROSTONE CR-2, PROSTONE SM Gold 8-12 MIN., PROSTONE Premix 150# **Additional Products**

Synonyms Dental Gypsum Cement

Recommended use Dental Plaster or Dental Stone.

Use in accordance with manufacturer's recommendations. Recommended restrictions

Manufacturer/Importer/Supplier/Distributor information

Company name United States Gypsum Company

550 West Adams Street **Address**

Chicago, Illinois 60661-3637

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

2. Hazard(s) identification

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

Label elements

Hazard symbol None. Signal word None. **Hazard statement** None.

Precautionary statement

Prevention Observe good industrial hygiene practices. Get medical attention/advice if you feel unwell. Response

Storage Store as indicated in Section 7.

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

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 Hemihydrate CAS 10034-76-1) | 26499-65-0 | > 95 |
| Titanium dioxide | 13463-67-7 | < 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.

Contact with dust: Rinse area with plenty of water. Get medical attention if irritation develops or Skin contact

persists.

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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.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

General information

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. No unusual fire or explosion hazards noted.

General fire hazards

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

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. 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

| Components | Exposure Limits (PEL) for Air Type | 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. |
| Titanium dioxide (CAS 13463-67-7) | PEL | 15 mg/m3 | Total dust. |
| US. OSHA Table Z-3 Permissible | Exposure Limits (PEL) for Min | eral Dusts (29 CFR 1910.1000 |)) |
| Components | Туре | Value | Form |
| Plaster of Paris (Calcium Sulfate Hemihydrate CAS 10034-76-1) (CAS 26499-65-0) | TWA | 5 mg/m3 | Respirable fraction. |

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

| Components | Туре | ral Dusts (29 CFR 1910.1000 Value | Form |
|---|--|--|--------------------------------|
| | | 15 mg/m3 | Total dust. |
| | | 50 mppcf | Total dust. |
| | | 15 mppcf | Respirable fraction. |
| US. ACGIH Threshold Limi | t Values (TLV) | | |
| Components | Туре | Value | Form |
| Plaster of Paris (Calcium Sulfate Hemihydrate CAS 10034-76-1) (CAS 26499-65-0) | TWA | 10 mg/m3 | Inhalable fraction. |
| Titanium dioxide (CAS 13463-67-7) | TWA | 2.5 mg/m3 | Respirable finescale particles |
| | | 0.2 mg/m3 | Respirable nanoscale particles |
| NIOSH. Immediately Dange | erous to Life or Health (IDLH) Values, | as amended | |
| Components | Туре | Value | |
| Titanium dioxide (CAS | IDLH | | |
| 13463-67-7) | IDE. | 5000 mg/m3 | |
| 13463-67-7) | | 5000 mg/m3 | |
| 13463-67-7) US. NIOSH: Pocket Guide 1 | | 5000 mg/m3 Value | Form |
| | to Chemical Hazards | Ū | Form Respirable. |
| 13463-67-7) US. NIOSH: Pocket Guide to Components Plaster of Paris (Calcium Sulfate Hemihydrate CAS 10034-76-1) (CAS | to Chemical Hazards Type | Value | |
| 13463-67-7) US. NIOSH: Pocket Guide to Components Plaster of Paris (Calcium Sulfate Hemihydrate CAS 10034-76-1) (CAS 26499-65-0) | to Chemical Hazards Type | Value 5 mg/m3 10 mg/m3 | Respirable. |
| 13463-67-7) US. NIOSH: Pocket Guide to Components Plaster of Paris (Calcium Sulfate Hemihydrate CAS 10034-76-1) (CAS | to Chemical Hazards Type TWA | Value 5 mg/m3 10 mg/m3 or the ingredient(s). ations causing dust formation. | Respirable. Total |
| 13463-67-7) US. NIOSH: Pocket Guide to Components Plaster of Paris (Calcium Sulfate Hemihydrate CAS 10034-76-1) (CAS 26499-65-0) ogical limit values propriate engineering trols | Type TWA No biological exposure limits noted for Provide sufficient ventilation for operations. | Value 5 mg/m3 10 mg/m3 or the ingredient(s). ations causing dust formation. Good exposure. | Respirable. Total |
| 13463-67-7) US. NIOSH: Pocket Guide to Components Plaster of Paris (Calcium Sulfate Hemihydrate CAS 10034-76-1) (CAS 26499-65-0) ogical limit values propriate engineering trols vidual protection measures | Type TWA No biological exposure limits noted for Provide sufficient ventilation for opera exposure limits and minimize the risk | Value 5 mg/m3 10 mg/m3 or the ingredient(s). ations causing dust formation. Good exposure. | Respirable. Total |
| 13463-67-7) US. NIOSH: Pocket Guide to Components Plaster of Paris (Calcium Sulfate Hemihydrate CAS 10034-76-1) (CAS 26499-65-0) ogical limit values propriate engineering trols | Type TWA No biological exposure limits noted for Provide sufficient ventilation for opera exposure limits and minimize the risk s, such as personal protective equipments. | Value 5 mg/m3 10 mg/m3 or the ingredient(s). ations causing dust formation. Good exposure. | Respirable. Total |

Ind

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

contact use suitable protective gloves.

Skin protection

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

If engineering controls do not maintain airborne concentrations below recommended exposure Respiratory protection

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

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.

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6 - 8 pН

Not applicable. Melting point/freezing point

Not applicable.

Initial boiling point and boiling

range

Not applicable.

Not applicable. Flash point **Evaporation rate** Not applicable. Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits

Explosive limit - lower (%) Not applicable. Not applicable. Explosive limit - upper (%) Vapor pressure Not applicable. Vapor density Not applicable.

Relative density Solubility(ies)

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

Partition coefficient

(n-octanol/water)

Not applicable.

2.96 (H2O=1)

Auto-ignition temperature Not applicable. 2642 °F (1450 °C) **Decomposition temperature Viscosity** Not applicable.

Other information

Bulk density 55 - 70 lb/ft3 Not explosive. **Explosive properties** Oxidizing properties Not oxidizing.

Particle size Varies. VOC 0 %

10. Stability and reactivity

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

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.

Acids. Incompatible materials

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. Under normal conditions of intended use, this product does not pose a skin hazard. Skin contact

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

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.

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Titanium dioxide (CAS 13463-67-7)

Acute Oral

LD50 Rat > 5000 mg/kg

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 mutagenicty found in Ames bacterial tests.

Carcinogenicity Inhalation of titanium dioxide dust may cause cancer, however due to the physical form of the

product, inhalation of dust is not likely.

IARC Monographs. Overall Evaluation of Carcinogenicity

Titanium dioxide (CAS 13463-67-7)

2B Possibly carcinogenic to humans.

NTP Report on Carcinogens

Not listed.

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

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) (CAS 26499-65-0)

Aquatic

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

Titanium dioxide (CAS 13463-67-7)

Aquatic Acute

Crustacea EC50 Daphnia magna > 100 mg/l, 48 Hours
Fish LL50 Oryzias latipes > 100 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.

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.

^{*} Estimates for product may be based on additional component data not shown.

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

Not applicable.

Annex II of MARPOL 73/78 and

the IBC Code

15. Regulatory information

US federal regulations

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

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".

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) Titanium dioxide (CAS 13463-67-7)

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

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

Titanium dioxide (CAS 13463-67-7)

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

Plaster of Paris (Calcium Sulfate Hemihydrate CAS 10034-76-1) (CAS 26499-65-0) Titanium dioxide (CAS 13463-67-7)

US. Rhode Island RTK

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

Titanium dioxide (CAS 13463-67-7)

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California Proposition 65



WARNING: This product can expose you to Titanium dioxide, which is known to the State of California to cause cancer. 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.

California Proposition 65 - CRT: Listed date/Carcinogenic substance

Titanium dioxide (CAS 13463-67-7) Listed: September 2, 2011

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) | 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) | Yes |
| New Zealand | New Zealand Inventory | Yes |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances | No |

(PICCS)

Taiwan Taiwan Chemical Substance Inventory (TCSI) Yes United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

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

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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.

Titanium dioxide: In lifetime inhalation studies of experimental rats, airborne nano-sized (15-40 nanometer particle size range) particles caused lung tissue overload, chronic inflammation and subsequent tumor formation. Because of these study results, titanium dioxide was classified by IARC as a 2B (possibly carcinogenic to humans). However, other laboratory animals such as mice and hamsters did not develop lung tumors under similar testing conditions. Furthermore, results of two major human epidemiology studies among titanium dioxide workers in the US and in Europe did not demonstrate an elevated lung cancer risk, and did not suggest an association between occupational exposure to titanium dioxide and risk for cancer. The titanium dioxide contained in this product is embedded, and generation of airborne nano-sized titanium dioxide particles is not expected.

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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^{*}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).

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.

SDS US

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