

# Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 02.07.2016

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Dentstone

## SECTION 1: Identification

### Product identifier

**Product name:** Dentstone

**Product code:** DN5100

### Recommended use of the product and restriction on use

**Relevant identified uses:** Laboratory chemicals

**Uses advised against:** Not determined or not applicable.

**Reasons why uses advised against:** Not determined or not applicable.

### Manufacturer or supplier details

**Manufacturer:**

**United States**

AquaPhoenix Scientific, Inc.

860 Gitts Run Road

Hanover, PA 17331

1-717-632-1291

### Emergency telephone number:

**Canada**

**ChemTel: (24-hour)**

+1(800)255-3924

+1(813)248-0585 (International)

## SECTION 2: Hazard(s) identification

### GHS classification:

Specific target organ toxicity - repeated exposure, category 1

Carcinogenicity, category 1A

### Label elements

#### Hazard pictograms:



**Signal word:** Danger

### Hazard statements:

H372 Causes damage to organs through prolonged or repeated exposure.

H350 May cause cancer.

### Precautionary statements:

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P281 Use personal protective equipment as required.

P308+P313 If exposed or concerned: Get medical advice/attention.

P405 Store locked up.

P501 Dispose of contents and container as instructed in Section 13.

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Hazards not otherwise classified: None

### SECTION 3: Composition/information on ingredients

Identification	Name	Weight %
CAS number: 12125-02-9	Ammonium Chloride	1-5
CAS number: 14808-60-7	Silica, Crystalline quartz	1-5
CAS number: 26499-65-0	Plaster of Paris	20-30
CAS number: 10034-76-1	Calcium sulfate hemihydrate	65-75

Additional Information: None

### SECTION 4: First aid measures

#### Description of first aid measures

##### General notes:

Not determined or not applicable.

##### After inhalation:

Maintain an unobstructed airway

Loosen clothing as necessary and position individual in a comfortable position

##### After skin contact:

Rinse affected area with soap and water

If symptoms develop or persist, seek medical attention

##### After eye contact:

If symptoms develop or persist, seek medical attention

Rinse/flush exposed eye(s) gently using water for 15-20 minutes

##### After swallowing:

Rinse mouth thoroughly

Seek medical attention if irritation, discomfort, or vomiting persists

#### Most important symptoms and effects, both acute and delayed

##### Acute symptoms and effects:

Not determined or not applicable.

##### Delayed symptoms and effects:

Not determined or not applicable.

#### Immediate medical attention and special treatment

##### Specific treatment:

Not determined or not applicable.

##### Notes for the doctor:

Not determined or not applicable.

### SECTION 5: Firefighting measures

#### Extinguishing media

##### Suitable extinguishing media:

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Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition

#### Unsuitable extinguishing media:

Not determined or not applicable.

#### Specific hazards during fire-fighting:

Thermal decomposition can lead to release of irritating gases and vapors

#### Special protective equipment for firefighters:

Wear protective eye wear, gloves and clothing

Refer to Section 8

#### Special precautions:

Avoid inhaling gases, fumes, dust, mist, vapor and aerosols

Avoid contact with skin, eyes and clothing

### SECTION 6: Accidental release measures

#### Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation

Ensure air handling systems are operational

#### Environmental precautions:

Should not be released into the environment

Prevent from reaching drains, sewer or waterway

#### Methods and material for containment and cleaning up:

Wear protective eye wear, gloves and clothing

#### Reference to other sections:

Not determined or not applicable.

### SECTION 7: Handling and storage

#### Precautions for safe handling:

Avoid breathing mist or vapor.

Do not eat, drink, smoke or use personal products when handling chemical substances.

#### Conditions for safe storage, including any incompatibilities:

Store in a cool, well-ventilated area.

### SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

#### Occupational Exposure limit values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
ACGIH	Calcium sulfate hemihydrate	10034-76-1	ACGIH TLV-TWA: 10 mg/m <sup>3</sup> Inhalable fraction
	Silica, Crystalline quartz	14808-60-7	ACGIH TLV TWA 0.025 mg/m <sup>3</sup> (Respirable fraction)
	Ammonium Chloride	12125-02-9	ACGIH TLV TWA 10.0 mg/m <sup>3</sup>
	Ammonium Chloride	12125-02-9	ACGIH TLV STEL 20.0 mg/m <sup>3</sup>
United States (OSHA)	Plaster of Paris	26499-65-0	OSHA PEL-TWA: 15 mg/m <sup>3</sup> (Total particulate/dust)
	Plaster of Paris	26499-65-0	OSHA PEL-TWA: 5 mg/m <sup>3</sup> (Respirable fraction)

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Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Silica, Crystalline quartz	14808-60-7	OSHA Z-3 TWA 0.1 mg/m <sup>3</sup> (Respirable fraction); 0.3 mg/m <sup>3</sup> (Total dust)
NIOSH	Silica, Crystalline quartz	14808-60-7	NIOSH TWA 0.05 mg/m <sup>3</sup>
	Ammonium Chloride	12125-02-9	NIOSH REL TWA 10.0 mg/m <sup>3</sup>
	Ammonium Chloride	12125-02-9	NIOSH REL ST 20.0 mg/m <sup>3</sup>

#### Biological limit values:

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

#### Information on monitoring procedures:

Not determined or not applicable.

#### Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.

#### Personal protection equipment

##### Eye and face protection:

Safety goggles or glasses, or appropriate eye protection.

##### Skin and body protection:

Select glove material impermeable and resistant to the substance.

##### Respiratory protection:

When necessary, use NIOSH-approved breathing equipment.

#### General hygienic measures:

Wash hands before breaks and at the end of work.

Avoid contact with skin, eyes and clothing.

### SECTION 9: Physical and chemical properties

#### Information on basic physical and chemical properties

Appearance	Fine powder, various color
Odor	Not determined
Odor threshold	Not determined
pH	Not determined
Melting point/freezing point	Not determined
Initial boiling point/range	Not determined
Flash point (closed cup)	Not determined
Evaporation rate	Not determined
Flammability (solid, gas)	Not determined
Upper flammability/explosive limit	Not determined
Lower flammability/explosive limit	Not determined
Vapor pressure	Not determined
Vapor density	Not determined
Density	Not determined
Relative density	2.3
Solubilities	Not determined or not available.
Partition coefficient (n-octanol/water)	Not determined

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Auto/Self-ignition temperature	Not determined
Decomposition temperature	Not determined
Dynamic viscosity	Not determined
Kinematic viscosity	Not determined
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or not available.

### Other information

### SECTION 10: Stability and reactivity

#### Reactivity:

Does not react under normal conditions of use and storage.

#### Chemical stability:

Stable under normal conditions of use and storage.

#### Possibility of hazardous reactions:

None under normal conditions of use and storage.

#### Conditions to avoid:

None known.

#### Incompatible materials:

None known.

#### Hazardous decomposition products:

None known.

### SECTION 11: Toxicological information

#### Acute toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

#### Substance data:

Name	Route	Result
Ammonium Chloride	oral	LD50 - Mouse: 1300 mg/kg

#### Skin corrosion/irritation

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:** No data available.

#### Serious eye damage/irritation

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

#### Substance data:

Name	Result
Ammonium Chloride	Causes serious eye irritation.

#### Respiratory or skin sensitization

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:** No data available.

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#### Carcinogenicity

**Assessment:** May cause cancer

**Product data:** No data available.

**Substance data:** No data available.

#### International Agency for Research on Cancer (IARC):

Name	Classification
Silica, Crystalline quartz	Group 1 - Carcinogenic to humans

#### National Toxicology Program (NTP):

Name	Classification
Silica, Crystalline quartz	Known to be human carcinogens

#### Germ cell mutagenicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:** No data available.

#### Reproductive toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:** No data available.

#### Specific target organ toxicity (single exposure)

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:** No data available.

#### Specific target organ toxicity (repeated exposure)

**Assessment:** Causes damage to organs through prolonged or repeated exposure

**Product data:** No data available.

**Substance data:** No data available.

#### Aspiration toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:** No data available.

**Information on likely routes of exposure:** No data available.

**Symptoms related to the physical, chemical and toxicological characteristics:** No data available.

**Other information:** No data available.

### SECTION 12: Ecological information

#### Acute (short-term) toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:** No data available.

#### Chronic (long-term) toxicity

**Product data:** No data available.

**Substance data:** No data available.

#### Persistence and degradability

**Product data:** No data available.

**Substance data:** No data available.

#### Bioaccumulative potential

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**Product data:** No data available.

**Substance data:** No data available.

#### Mobility in soil

**Product data:** No data available.

**Substance data:** No data available.

**Other adverse effects:** No data available.

### SECTION 13: Disposal considerations

#### Disposal methods:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11)

### SECTION 14: Transport information

#### United States Transportation of dangerous goods (49 CFR DOT)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

#### International Maritime Dangerous Goods (IMDG)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

#### International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

#### Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Bulk Name	None
Ship type	None
Pollution category	None

### SECTION 15: Regulatory information

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### United States regulations

#### Inventory listing (TSCA):

10034-76-1	Calcium sulfate hemihydrate	Not Listed
14808-60-7	Silica, Crystalline quartz	Listed
12125-02-9	Ammonium Chloride	Listed
26499-65-0	Plaster of Paris	Not Listed

**Significant New Use Rule (TSCA Section 5):** Not determined.

**Export notification under TSCA Section 12(b):** Not determined.

#### SARA Section 311/312 hazards:

Acute	Chronic	Fire	Pressure	Reactive
No	No	No	No	No

**SARA Section 302 extremely hazardous substances:** Not determined.

**SARA Section 313 toxic chemicals:** Not determined.

#### CERCLA:

12125-02-9	Ammonium Chloride	Listed	5000
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**RCRA:** Not determined.

**Section 112(r) of the Clean Air Act (CAA):** Not determined.

#### Massachusetts Right to Know:

10034-76-1	Calcium sulfate hemihydrate	Not Listed
12125-02-9	Ammonium Chloride	Not Listed
26499-65-0	Plaster of Paris	Listed

#### New Jersey Right to Know:

10034-76-1	Calcium sulfate hemihydrate	Not Listed
12125-02-9	Ammonium Chloride	Not Listed
26499-65-0	Plaster of Paris	Not Listed

#### New York Right to Know:

10034-76-1	Calcium sulfate hemihydrate	Not Listed
12125-02-9	Ammonium Chloride	Not Listed
26499-65-0	Plaster of Paris	Not Listed

#### Pennsylvania Right to Know:

10034-76-1	Calcium sulfate hemihydrate	Not Listed
12125-02-9	Ammonium Chloride	Not Listed
26499-65-0	Plaster of Paris	Not Listed

#### California Proposition 65:



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**Dentstone**

WARNING: This product contains a chemical known to the State of California to cause cancer.

14808-60-7

Silica, Crystalline quartz

### SECTION 16: Other information

**Abbreviations and Acronyms:** None

**Disclaimer:**

The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The responsibility to provide a safe workplace remains with the user. This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

**NFPA:** 1-0-1

**HMIS:** 1-0-1

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**End of Safety Data Sheet**