



SAFETY DATA SHEET

according to Regulation (EU) 2015/830

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LabStone (R) dental stone

Revision 1
Revision date 2021-01-11

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name LabStone (R) dental stone

1.2. Relevant identified uses of the substance or mixture and uses advised against

Description Foundry material.

1.3. Details of the supplier of the safety data sheet

Company Ransom & Randolph
Address 3535 Briarfield Boulevard, PO Box 1570
Maumee, Ohio 43537 USA
Web www.ransom-randolph.com
Telephone +1 (419) 865-9497
Fax +1 (419) 865-9997
Email RR.SDS@dentsply.com
Email address of the competent person RR.SDS@dentsply.com

1.4. Emergency telephone number

Emergency telephone number USA +1 419 865 9497
Company Ransom & Randolph Co.
08:00-17:00 (US Eastern Std. / GMT minus 5)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.2. Classification - EC 1272/2008 Carc. 1A: H350;

2.2. Label elements

Hazard pictograms This substance / mixture has been classified in accordance with the US Federal OSHA Hazard Communication Standard 29CFR 1910.1200. Substance concentration band-ranges are presented, and minor ingredient composition maybe withheld, to protect trade secrets.



Signal Word

Danger

Hazard Statement

Carc. 1A: H350 - May cause cancer inhalation.

Precautionary Statement: Prevention

P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary Statement: Response

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

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2.2. Label elements

| | |
|--------------------------------------|--|
| Precautionary Statement: Storage | P405 - Store locked up. |
| Precautionary Statement: Disposal | P501 - Dispose of contents/container to local and national regulations |

2.3. Other hazards

| | |
|---------------|--------------------------------------|
| Other hazards | Product contains crystalline silica. |
|---------------|--------------------------------------|

Further information

| | |
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| | Not applicable. PBT and vPvB assessment. |
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SECTION 3: Composition/information on ingredients

3.2. Mixtures

EC 1272/2008

| Chemical Name | Index No. | CAS No. | EC No. | REACH Registration Number | Conc. (%w/w) | Classification |
|--|-----------|------------|-----------|---------------------------|--------------|----------------------------------|
| Calcium sulfate (Plaster of Paris) | | 26499-65-0 | | | 90 - 100% | |
| silica (cristobalite conc. \geq 1.0 %) | | 14464-46-1 | 238-455-4 | | 0 - 0.5% | Carc. 1A: H350; STOT RE 1: H372; |

Further information

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| | Full text for all Risk Phrases mentioned in this section are displayed in Section 16. |
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SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
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| Inhalation | Move the exposed person to fresh air. |
| Eye contact | Rinse immediately with plenty of water for 15 minutes holding the eyelids open. |
| Skin contact | Wash with soap and water. |
| Ingestion | Drink 1 to 2 glasses of water. DO NOT INDUCE VOMITING. |

4.2. Most important symptoms and effects, both acute and delayed

| | |
|--------------|---|
| Inhalation | May cause irritation to respiratory system. |
| Eye contact | May cause irritation to eyes. |
| Skin contact | May cause irritation to skin. |
| Ingestion | May cause irritation to mucous membranes. |

4.3. Indication of any immediate medical attention and special treatment needed

| | |
|--------------|---|
| Inhalation | Seek medical attention if irritation or symptoms persist. |
| Eye contact | Seek medical attention if irritation or symptoms persist. |
| Skin contact | Seek medical attention if irritation or symptoms persist. |
| Ingestion | Seek medical attention if irritation or symptoms persist. |

SECTION 5: Firefighting measures

5.1. Extinguishing media

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| | Use extinguishing media appropriate to the surrounding fire conditions. |
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5.2. Special hazards arising from the substance or mixture

| | |
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| | Burning produces irritating, toxic and obnoxious fumes. |
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5.3. Advice for firefighters

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| | Self-contained breathing apparatus. Wear suitable protective clothing. |
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SECTION 6: Accidental release measures

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6.1. Personal precautions, protective equipment and emergency procedures

Avoid raising dust. Wear suitable respiratory equipment when necessary.

6.2. Environmental precautions

No environmental requirements.

6.3. Methods and material for containment and cleaning up

Avoid raising dust. Clean the area using a vacuum cleaner. Transfer to suitable, labelled containers for disposal.

6.4. Reference to other sections

See section [2, 8 & 13] for further information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid raising dust. Ensure adequate ventilation of the working area. In case of insufficient ventilation, wear suitable respiratory equipment.

Do not eat, drink or smoke in areas where this product is used or stored. Wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Keep containers tightly closed.

7.3. Specific end use(s)

Foundry material.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

exposure limits - calcium sulfate - 10 mg/m³ TWA ACGIH TLV (inhalable fraction); 5 mg/m³ 8 hr -TWA PEL (respirable fraction).

all respirable crystalline silica - sum of all types - quartz + cristobalite TWA PEL OSHA (respirable fraction) 0.050 mg/m³

Action Level OSHA (respirable fraction) 0.025 mg/m³.

8.1.1. Exposure Limit Values

| | | |
|------------------------------------|--|--|
| Calcium sulfate (Plaster of Paris) | WEL 8-hr limit ppm: - | WEL 8-hr limit mg/m ³ : - |
| | WEL 15 min limit ppm: - | WEL 15 min limit mg/m ³ : - |
| | WEL 8-hr limit mg/m ³ total 10 inhalable dust: | WEL 15 min limit mg/m ³ total - inhalable dust: |
| | WEL 8-hr limit mg/m ³ total 4 respirable dust: | WEL 15 min limit mg/m ³ total - respirable dust: |

8.2. Exposure controls



8.2.1. Appropriate engineering controls

Ensure adequate ventilation of the working area.

8.2.2. Individual protection measures

Protective clothing.

Eye / face protection

In case of splashing, wear: Approved safety goggles. safety glasses with side-shields.

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8.2. Exposure controls

| | |
|--|--|
| Skin protection - Handprotection | Wear suitable gloves. |
| Respiratory protection | Suitable respiratory equipment. |
| 8.2.3. Environmental exposure controls | Not normally required. |
| Occupational exposure controls | Appropriate local exhaust ventilation is required. |

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---------------------------|----------------------------------|
| Appearance | Powder |
| Colour | Blue/Off white |
| Odour | Mild |
| pH | 6 - 8 |
| Melting point | 1450 °C |
| Relative density | 3 (H ₂ O = 1 @ 20 °C) |
| Partition coefficient | No data available |
| Viscosity | No data available |
| Oxidising properties | Not applicable. |
| Autoignition temperature | Not applicable. |
| Fat Solubility | Not applicable. |
| Freezing Point | Not applicable. |
| Initial boiling point | Not applicable. |
| Flash point | Not applicable. |
| Evaporation rate | Not applicable. |
| Flammability (solid, gas) | Not applicable. |
| Vapour pressure | Not applicable. |
| Vapour density | Not applicable. |
| Solubility | Slightly soluble in water |

9.2. Other information

| | |
|----------------------------------|-------------------|
| Conductivity | No data available |
| Surface tension | No data available |
| Gas group | Not applicable. |
| Benzene Content | Not applicable. |
| Lead content | Not applicable. |
| VOC (Volatile organic compounds) | Not applicable. |

SECTION 10: Stability and reactivity

10.1. Reactivity

| | |
|--|-----------------|
| | Not applicable. |
|--|-----------------|

10.2. Chemical stability

| | |
|--|---------------------------------|
| | Stable under normal conditions. |
|--|---------------------------------|

10.3. Possibility of hazardous reactions

| | |
|--|------------------------|
| | No Significant Hazard. |
|--|------------------------|

10.4. Conditions to avoid

| | |
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| | When mixed with water, this product can become very hot. Do not make moulds of any body part. |
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10.5. Incompatible materials

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10.5. Incompatible materials

| | |
|--|---|
| | mixing water and acids must be supervised, due to large amounts of heat produced. |
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10.6. Hazardous decomposition products

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| | calcium oxide. Sulphur oxides. |
|--|--------------------------------|

SECTION 11: Toxicological information

11.1. Information on toxicological effects

| | |
|-----------------------------------|---|
| Acute toxicity | Intended use. No Significant Hazard. |
| Skin corrosion/irritation | No irritation expected. |
| Serious eye damage/irritation | Causes eye irritation. |
| Respiratory or skin sensitisation | No sensitization effects reported. |
| Germ cell mutagenicity | No mutagenic effects reported. |
| Carcinogenicity | Known Human Carcinogens (Category 1). |
| Reproductive toxicity | No observed effect level. No observed effect concentration. |
| STOT-single exposure | No known adverse health effects. |
| STOT-repeated exposure | Chronic effects < 1% respirable crystalline silica Prolonged inhalation of respirable crystalline silica In 1997, the International Agency for Research on Cancer (IARC) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However it pointed out that not all industrial circumstances, nor all crystalline silica types, were to be incriminated. (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicates dust and organic fibers, 1997, Vol. 68, IARC, Lyon, France). In June 2003, the European Commission's Scientific Committee for Occupational Exposure Limits (SCOEL) concluded: (SCOEL SUM Doc 94-final on respirable crystalline silica, June 2003) There is a body of evidence supporting the fact that increased cancer risk would be limited to people already suffering from silicosis. Worker protection against silicosis should be assured by respecting the existing regulatory occupational exposure limits and implementing additional risk management measures where required (see Section 16). |
| Aspiration hazard | No Significant Hazard. |

11.1.4. Toxicological Information

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|--|-------------------|
| | No data available |
|--|-------------------|

SECTION 12: Ecological information

12.1. Toxicity

| | |
|---------------------------|------------------------------|
| LabStone (R) dental stone | Fish LC50/96h: 1970.000 mg/l |
|---------------------------|------------------------------|

12.2. Persistence and degradability

| | |
|--|---------------------------------------|
| | No data is available on this product. |
|--|---------------------------------------|

12.3. Bioaccumulative potential

| | |
|--|-------------------------|
| | Does not bioaccumulate. |
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Partition coefficient

| | |
|---------------------------|-------------------|
| LabStone (R) dental stone | No data available |
|---------------------------|-------------------|

12.4. Mobility in soil

| | |
|--|-----------------|
| | Not determined. |
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12.5. Results of PBT and vPvB assessment

Not determined.

12.6. Other adverse effects

Not applicable.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of in compliance with all. local and national regulations.

Disposal methods

Contact a licensed waste disposal company.

Disposal of packaging

Empty containers can be sent for disposal or recycling.

SECTION 14: Transport information

14.1. UN number

The product is not classified as dangerous for carriage.

14.2. UN proper shipping name

The product is not classified as dangerous for carriage.

14.3. Transport hazard class(es)

The product is not classified as dangerous for carriage.

14.4. Packing group

The product is not classified as dangerous for carriage.

14.5. Environmental hazards

The product is not classified as dangerous for carriage.

14.6. Special precautions for user

The product is not classified as dangerous for carriage.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

The product is not classified as dangerous for carriage.

Further information

The product is not classified as dangerous for carriage.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulations

U.S. FEDERAL REGULATIONS: Dental family of investments - LabStone (R) dental stone.
 CERCLA 103 Reportable Quantity: is not subject to CERCLA reporting requirements. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

Hazard Category For Section 311/312: Chronic health

Section 313 Toxic Chemicals: This product contains the following chemicals subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372): None

Section 302 Extremely Hazardous Substances (TPQ): None

EPA Toxic Substances Control Act (TSCA) Status: All of the components of this product are listed on the TSCA inventory.

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15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

| | |
|--|--|
| | <p>U.S. STATE REGULATIONS California Proposition 65: N/A</p> <p>INTERNATIONAL REGULATIONS:</p> <p>Canadian Environmental Protection Act: All of the components in this product are listed on the Domestic Substances List (DSL).</p> |
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15.2. Chemical safety assessment

| | |
|--|---------------------------------------|
| | No data is available on this product. |
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SECTION 16: Other information

Other information

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| Revision | This document differs from the previous version in the following areas: 9 - 9.1. Information on basic physical and chemical properties (Colour). 15 - Regulations. |
| Text of Hazard Statements in Section 3 | Carc. 1A: H350 - May cause cancer . STOT RE 1: H372 - Causes damage to organs through prolonged or repeated exposure . |

Further information

| | |
|--|---|
| | <p>Training Workers must be informed of the presence of crystalline silica and trained in the proper use and handling of this product as required under applicable regulations.</p> <p>The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.</p> |
|--|---|