

## **SAFETY DATA SHEETS**

**This SDS packet was issued with item:**

070851964

**The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).**

070851956

**The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).**

070851972 070851980

**Section I - Company Information**

Manufacturer: **Patterson Companies, Inc.**  
**1031 Mendota Heights Road**  
**St. Paul, MN 55120**

24-hour Emergency Response Number: 800.424.9300 Tel:  
800.328.5536; Fax: 651.686.9331  
www.pattersoncompanies.com

**Section II - Hazardous Ingredients/Identity Information**

Hazardous Components (Specific Chemical Identity; Common Name(s)) OSHA PEL ACGIH TLV % (optional)

**None**

**Section III - Physical/Chemical Characteristics**

Boiling Point: NAIF Specific Gravity (H<sub>2</sub>O=1): 2.7 - 3.0  
Vapor Pressure (mm Hg.): NAIF Melting Point: 1450°C  
Vapor Density (AIR=1): NAIF Evaporation Rate (Butyl Acetate =1): NAIF  
Solubility in Water: 0.20% Appearance and Odor: Powder, Low Odor

**Section IV - Fire and Explosion Hazard Data**

Flash Point: NAIF Flammable Limits: (LEL) N/A (UEL) N/A  
Extinguishing Media: NAIF Special Fire Fighting Procedures: None  
Unusual Fire and Explosion Hazards: None

**Section V - Reactivity Data**

Stability: Stable Conditions to Avoid: None  
Incompatibility: Acids Hazardous Decomposition or By-products: Above 1450°C - CaO+SO<sub>2</sub>  
Hazardous Polymerization: Will Not Occur Conditions to Avoid: None

**Section VI - Health Hazard Data**

Route(s) of Entry: Inhalation? Yes Skin? No Ingestion? Yes  
Health Hazards: Acute: NAIF Chronic: NAIF  
Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No  
Signs and Symptoms of Exposure: NAIF  
Medical Conditions Generally Aggravated by Exposure: Pre-existing upper respiratory and lung disease.  
Emergency and First Aid Procedures  
Inhalation: Remove to fresh air \*. Ingestion: Dilute by drinking water or milk. \*. Skin: \*. Eye: Wash with large amounts of water \*. (\* Obtain first aid or medical attention if needed.)

**Section VII - Precautions for Safe Handling and Use**

Steps to Be Taken in Case Material is Released or Spilled:  
Normal cleanup procedures, avoid dusting conditions.  
Waste Disposal Method:  
Standard landfill methods consistent with federal, state, and local laws.  
Precautions to Be Taken in Handling and Storing:  
Avoid dusting conditions.  
Other Precautions: NAIF

**Section VIII - Control Measures**

Respiratory Protection: OSHA approved dust mask.  
Ventilation Local Exhaust: Recommended Special: NAIF  
Mechanical (General): Vent to dust collector. Other: NAIF  
Protective Gloves: As Desired Eye Protection: Goggles Recommended  
Other Protective Clothing or Equipment: NAIF Work/Hygienic Practices: NAIF

**SECTION 1 : Identification of the substance/preparation and of the company / undertaking****(a) GHS product identifier**

Patterson - Die Stone and Resin Die Stone  
(All Colors)

**(e) Emergency phone number**

CHEMTREC 1-800-424-9300

**(b) Other means of identification**

NA

**(c) Recommended use of the chemical and restrictions on use**

For professional dental applications.

**(d) Supplier's details**

Patterson Companies, Inc.  
1031 Mendota Heights Road  
Saint Paul, MN 55120  
Phone: 1-800-328-5536

**SECTION 2: Hazards identification****(a) GHS classification of the substance/mixture****Substance Name**

- |                                                         |    |
|---------------------------------------------------------|----|
| 1. Undisclosed due to Confidential Business Information | ND |
| 2. Crystalline Silica                                   | ND |

- IARC - International Agency for Research on Cancer: 1- Carcinogenic to humans;
- NTP National Toxicology Program (Health and Human Services Dept., Public Health Service, NIH/NIEHS):  
1- Known to be carcinogen
- ACGIH American Conference of Governmental Industrial Hygienists: A2 Suspected human carcinogen
- CAL-65: Listed as Chemical known to the State of California to Cause Cancer

**(b) Label Elements****Hazard statements**

None

**Precautionary statements**

None

**Hazard Symbol(s)**

NONE

**Signal Word(s)**

NONE

**(c) Other hazards which do not result in classification**

**IF ON SKIN:** This material hardens and slowly becomes hot when mixed with water. Therefore, it SHOULD NOT be used to make a cast enclosing any part of the body. Failure to follow these instructions can cause severe burns that may require surgical removal of affected tissue or amputation of limb. Direct, prolonged or repeated contact with the skin may cause irritation and rubbing against the skin can result in abrasions.

**IF INHALED:** Dusts from this product may irritate the nose, throat, lungs, and upper respiratory tract. Persons subject to large amounts of this dust will be forced to leave area because of nuisance conditions such as coughing, sneezing, and nasal irritation. Labored breathing may occur after excessive inhalation.

**IF SWALLOWED:** Unlikely to occur, but may cause gastric disturbances if swallowed. The materials are non-toxic, however, ingestion of a sufficient quantity could lead to mechanical obstruction of the gut, especially the pyloric region.

**IF IN EYES:** Direct Contact can cause mechanical irritation of eyes.

**SECTION 3: Composition/information on ingredients**

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Form No. A296

Date Prepared: 4/8/2015

**(a) Chemical(s) Identity:****(b) Common Name:**

Undisclosed due to Confidential Business Information  
Crystalline Silica

**(c) CAS No.**

NA  
14808-60-7

**Mixture:****Concentration (Percentage)**

>99%  
<0.05%

**SECTION 4: First-aid measures****(a) Description of first aid measures:**

**IF ON SKIN (or hair):** Rinse with water until free of material to avoid abrasions, then wash skin thoroughly with mild soap and water. May dry skin.

**IF INHALED:** If respiratory symptoms persist, consult physician.

**IF SWALLOWED:** If gastric disturbance occurs, consult physician.

**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Direct Contact can cause mechanical irritation of eyes. If burning, redness, itching, pain or other symptoms persist or develop, consult a physician.

**(b) Most important symptoms and effects, both acute and delayed:**

**IF INHALED:** Nuisance conditions such as coughing, sneezing, and nasal irritation. Labored breathing may occur after excessive inhalation.

**IN EYES:** If burning, redness, itching, pain or other symptoms persist or develop, consult a physician.

**(c) Indication of any immediate medical attention and special treatment needed:**

ND

**SECTION 5: Fire-fighting measures****(a) Suitable extinguishing media:**

Water or use extinguishing media appropriate for surrounding fire.

**(b) Special hazards arising from the chemical or mixture:**

None known

**(c) Special protective equipment and precautions for fire-fighters:**

Wear appropriate personal protective equipment.

**SECTION 6: Accidental release measures****(a) Personal precautions, protective equipment and emergency procedures:**

No special precautions. Wear appropriate personal protective equipment.

**(b) Environmental precautions:**

Toxicity studies performed with fish, aquatic invertebrates and aquatic plants showed no toxic effect.

**(c) Methods and material for containment and cleaning up:**

Remove by dry-sweeping or vacuum. Avoid creating excessive dust. Do not wash down drains since it could plug drains. Wear protective equipment.

**SECTION 7: Handling and storage****(a) Precautions for safe handling:**

This product can release nuisance dust in handling or during use. Eye, skin, nose, throat, and upper respiratory irritation may occur with prolonged dust exposures.

**(b) Conditions for safe storage, including any incompatibilities:**

Store in a dry area to minimize potential for clumping due to moisture absorption. Dew point conditions or other conditions causing presence of moisture will harden product during storage.

**SECTION 8: Exposure controls/Personal protection****(a) Control parameters:**

Chemical	ACGIH	OSHA
	TLV	PEL TWA
CBI	10 mg/m <sup>3</sup>	15 mg/m <sup>3</sup> total, 5 mg/m <sup>3</sup> respirable
Crystalline Silica	0.1 mg/m <sup>3</sup> respirable	0.1 mg/m <sup>3</sup> respirable

**(b) Appropriate Engineering Controls:**

Ventilate to keep exposures below TLV requirements of the individual ingredients. General ventilation is expected to be satisfactory. Use local exhaust ventilation if necessary to control dust.

**(c) Individual protection measures:**

**RESPIRATORY:** None required where adequate ventilation conditions exist. In order to meet TLV requirements of individual ingredients and to control dusting conditions, provide general ventilation and local exhaust ventilation. Avoid creating dust. Wear a NIOSH/OSHA approved dust respirator in poorly ventilated areas and/or if TLV requirements of the individual ingredients is exceeded.

**OTHER PROTECTIVE EQUIPMENT:** No special body protection is required under typical circumstances of use and handling. If necessary, refer to appropriate governing standards. An eyewash station and a safety shower are recommended.

**SECTION 9: Physical and chemical properties**

<b>(a) Appearance:</b>	White to off-white powder
<b>(b) Odor:</b>	None
<b>(c) Odor threshold:</b>	ND
<b>(d) pH:</b>	7.5 - 8.5
<b>(e) Melting point / freezing point:</b>	1,450 Degrees Celsius
<b>(f) Initial boiling point and boiling range:</b>	ND
<b>(g) Flash point</b>	Not Combustible
<b>(h) Evaporation rate (BuAc=1):</b>	ND
<b>(i) Flammability:</b>	ND
<b>(j) Upper/lower flammability or explosive limits:</b>	ND
<b>(k) Vapor Pressure:</b>	ND
<b>(l) Vapor density:</b>	ND
<b>(m) Relative density:</b>	ND
<b>(n) Solubility:</b>	ND
<b>(o) Partition coefficient: n-octanol/water:</b>	ND
<b>(p) Auto-ignition temperature:</b>	ND
<b>(q) Decomposition temperature:</b>	1,450 Degrees Celsius
<b>(r) Viscosity:</b>	ND

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**Date Prepared:****4/8/2015****SECTION 10: Stability and reactivity**

- (a) **Reactivity:** Low, HMIS 0
- (b) **Chemical stability:** Stable
- (c) **Possibility of hazardous reactions:** Low
- (d) **Conditions to avoid:** Incompatible with Acids
- (f) **Hazardous decomposition products:** Decomposes to Calcium Oxide and Sulfur Dioxide at 1,450 Degrees Celsius

**SECTION 11: Toxicological information**

<b>Acute toxicity</b>	NE
<b>Skin corrosion/irritation</b>	NE
<b>Serious Eye Damage / Irritation</b>	NE
<b>Respiratory or skin sensitization</b>	NE
<b>Germ cell mutagenicity</b>	NE
<b>Carcinogenicity</b>	NE
<b>Reproductive toxicity</b>	NE
<b>STOT-single exposure</b>	NE
<b>STOT-repeated exposure</b>	NE
<b>Aspiration Hazard</b>	NE

- (a) **Exposure route:** inhalation, skin and/or eye contact
- (b) **Symptoms related to the physical, chemical and toxicological characteristics:**  
difficulty breathing, rashes or irritations
- (c) **Delayed and immediate effects and also chronic effects from short and long tem exposure:**  
difficulty breathing, rashes or irritations
- (d) **Numerical measures of toxicity:**  
See control paramaters above

**SECTION 12: Ecological information**

- (a) **Ecotoxicity:** ND
- (b) **Persistence and degradability:** ND
- (c) **Bioaccumulative potential** ND
- (d) **Mobility in soil:** ND
- (e) **Other adverse effects:**

**SECTION 13: Disposal considerations****Product:****Recommendation**

Sweep and dispose of material in accordance with all applicable federal, state and local regulations.

**SECTION 14: Transport information****(a) UN Number**

This product is not regulated as a hazardous material by neither the United States (DOT) Transportation regulations nor Canadian Transportation of Dangerous Goods.

**(b) UN Proper shipping name**

NA

**(c) Transport hazard class(es)**

NA

**(d) Packing Group**

NA

**(e) Environmental hazards**

NA

**(f) Transport in bulk**

NA

**(g) Other Information****SECTION 15: Regulatory information****SARA Reporting Requirements:**

NA

**SARA Threshold Planning Quantity:**

NA

**TSCA Inventory Status:**

ND

**Other Federal Requirements:**

NA

**Other Canadian Regulations:**

NA

**State Regulatory Information:**

NA

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**Date Prepared:****4/8/2015****SECTION 16: Other information****PREPARED BY:** Kathryn Harris**GAR QMS SDS REFERENCE:** A002**HAZARDOUS MATERIAL IDENTIFICATION (HMIS) RATING:**

Health	0
Flammability	0
Reactivity	0
Other	NA

**REVISION NUMBER:** 150408**CHANGES FROM PREVIOUS VERSION:**SECOND VERSION  
MADE FORMAT CORRECTIONS**ABBREVIATIONS**

NA Not Applicable	LD Lethal Dose
ND Not Determined	TC Toxic Concentration
NE Not Established	TD Toxic Dose
ppm parts per million	BOD Biological Oxygen Demand
G Gallon	COD Chemical Oxygen Demand
mg Milligram	Lo Lowest
L Liter	ThOD Theoretical Oxygen Demand
gm Gram	TLm Threshold Limit
mol Mole	IC Inhibitory Concentration
kg Kilogram	DOC Dissolved Organic Carbon
μ Micro	H Hours
mm Millimeter	M Months
p Pico	D Days
Pa Pascals	Y Years
c cento	W Weeks
LC Lethal Concentration	

ACGIH American Conference of Governmental Industrial Hygienist

CPR Controlled Product's Regulation

DSL Canadian Domestic Substances List

NDSL Canadian Non-domestic Substance List

IARC International Agency for Research for Cancer

NOEL No Observed Effect Level

NOAEL No Observed Adverse Effect Level

OSHA Occupational Safety and Health Administration

PEL Permissible Exposure Limit

TLV Threshold Limit Value



**SECTION 16: Other information (cont.)**

THIS MATERIAL SAFETY DATA SHEET IS PREPARED IN COMPLIANCE WITH FEDERAL REGULATIONS (29 CFR 1910.1200) OF CHEMICALS AND THE GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING REVISION 5. ANY APPLICABLE STATE AND LOCAL REGULATIONS SHOULD BE CONSULTED.

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## Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

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### Patterson-Die Stone and Resin Die Stone

#### SECTION 1: Identification

##### Product identifier

**Product name:** Patterson-Die Stone and Resin Die Stone

**Product code:** 070851956, 070851964, 070851972, 070851980

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

**Relevant identified uses:** For professional dental applications.

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

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

##### Manufacturer or supplier details

**Manufacturer:**

**Supplier**

Patterson Companies, Inc.

1031 Mendota Heights Road

St. Paul, MN 55120

1-800-328-5536 Fax:1-651-686-9331

##### Emergency telephone number:

**United States**

**CHEMTREC**

Within USA and Canada: 1-800-424-9300 (CHEMTREC, 24 hours)

Outside USA and Canada: +1-703-527-3887 (CHEMTREC, 24 hours)

#### SECTION 2: Hazard(s) identification

**GHS classification:** Not a hazardous substance or mixture

##### Label elements

**Hazard pictograms:** None

**Signal word:** None

**Hazard statements:** None

**Precautionary statements:** None

**Hazards not otherwise classified:** None

#### SECTION 3: Composition/information on ingredients

Identification	Name	Weight %
CAS number: N/A	Undisclosed due to Confidential Business Information	<99
CAS number: 14808-60-7	Silica, crystalline	<0.5

**Additional Information:** None

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## Patterson-Die Stone and Resin Die Stone

### SECTION 4: First aid measures

#### Description of first aid measures

##### General notes:

Not determined or not applicable.

##### After inhalation:

Loosen clothing as necessary and position individual in a comfortable position

Maintain an unobstructed airway

Get medical advice/attention if you feel unwell

##### After skin contact:

Rinse affected area with soap and water

If symptoms develop or persist, seek medical attention

##### After eye contact:

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

If symptoms develop or persist, seek medical attention

##### 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:

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:

Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit

#### Special precautions:

Carbon monoxide and carbon dioxide may form upon combustion

Heating causes a rise in pressure, risk of bursting and combustion

### SECTION 6: Accidental release measures

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

Ensure adequate ventilation

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### Patterson-Die Stone and Resin Die Stone

Ensure air handling systems are operational  
Wear protective eye wear, gloves and clothing

#### 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  
Sweep or scoop up solid material while minimizing dust generation  
Dispose of contents / container in accordance with local regulations

#### Reference to other sections:

Not determined or not applicable.

### SECTION 7: Handling and storage

#### Precautions for safe handling:

Use only with adequate ventilation.  
Avoid breathing dust.  
Do not eat, drink, smoke or use personal products when handling chemical substances.

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

Keep container tightly sealed.  
Keep container dry.  
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
United States (OSHA)	Silica, crystalline	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)
ACGIH	Silica, crystalline	14808-60-7	ACGIH TLV TWA 0.025 mg/m <sup>3</sup> (Respirable fraction)
NIOSH	Silica, crystalline	14808-60-7	NIOSH TWA 0.05 mg/m <sup>3</sup>

#### Biological limit values:

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

#### Information on monitoring procedures:

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls.  
Biological monitoring may also be appropriate for some substances.

#### Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.  
Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

#### Personal protection equipment

##### Eye and face protection:

Safety goggles or glasses, or appropriate eye protection.

##### Skin and body protection:

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### Patterson-Die Stone and Resin Die Stone

Select glove material impermeable and resistant to the substance.

Wear appropriate clothing to prevent any possibility of skin contact.

#### 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.

#### General hygienic measures:

Avoid contact with skin, eyes and clothing.

Wash hands before breaks and at the end of work.

Wash contaminated clothing before reuse.

### SECTION 9: Physical and chemical properties

#### Information on basic physical and chemical properties

Appearance	White to off-white powder
Odor	Not determined or not available.
Odor threshold	Not determined or not available.
pH	7.5 - 8.5
Melting point/freezing point	Not determined or not available.
Initial boiling point/range	Not determined or not available.
Flash point (closed cup)	Not determined or not available.
Evaporation rate	Not determined or not available.
Flammability (solid, gas)	Not determined or not available.
Upper flammability/explosive limit	Not determined or not available.
Lower flammability/explosive limit	Not determined or not available.
Vapor pressure	Not determined or not available.
Vapor density	Not determined or not available.
Density	Not determined or not available.
Relative density	Not determined or not available.
Solubilities	Not determined or not available.
Partition coefficient (n-octanol/water)	Not determined or not available.
Auto/Self-ignition temperature	Not determined or not available.
Decomposition temperature	Not determined or not available.
Dynamic viscosity	Not determined or not available.
Kinematic viscosity	Not determined or not available.
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:

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### Patterson-Die Stone and Resin Die Stone

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:** No data available.

#### 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:** No data available.

#### 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.

#### Carcinogenicity

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

**Product data:** No data available.

**Substance data:**

Name	Species	Result
Silica, crystalline		Component may cause cancer.

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

Name	Classification
Silica, crystalline	Group 1 - Carcinogenic to humans

#### National Toxicology Program (NTP):

Name	Classification
Silica, crystalline	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.

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### Patterson-Die Stone and Resin Die Stone

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

**Product data:**

No data available.

**Substance data:**

Name	Result
Silica, crystalline	Component affects the lungs through repeated exposure.

#### 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

**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.

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## Patterson-Die Stone and Resin Die Stone

### 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

### 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

### SECTION 15: Regulatory information

#### United States regulations

##### Inventory listing (TSCA):

14808-60-7	Silica, crystalline	Listed
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**Significant New Use Rule (TSCA Section 5):** Not determined.

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

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

##### SARA Section 313 toxic chemicals:

14808-60-7	Silica, crystalline	Not Listed
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**CERCLA:** Not determined.

**RCRA:** Not determined.

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



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### Patterson-Die Stone and Resin Die Stone

#### Massachusetts Right to Know:

14808-60-7	Silica, crystalline	Listed
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#### New Jersey Right to Know:

14808-60-7	Silica, crystalline	Listed
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#### New York Right to Know:

14808-60-7	Silica, crystalline	Not Listed
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#### Pennsylvania Right to Know:

14808-60-7	Silica, crystalline	Listed
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#### California Proposition 65:

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

14808-60-7	Silica, crystalline
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### SECTION 16: Other information

**Abbreviations and Acronyms:** None

**Disclaimer:**

This product has been classified in accordance with OSHA HCS 2012 guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

**NFPA:** 0-0-0-0

**HMIS:** 0-0-0-0

**Initial preparation date:** 11.27.2017

**End of Safety Data Sheet**



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According to Canadian Hazardous Products Regulations and WHMIS 2015

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### Patterson-Die Stone and Resin Die Stone

#### SECTION 1: Identification

##### Product identifier

**Product name:** Patterson-Die Stone and Resin Die Stone

**Product code:** 070851956, 070851964, 070851972, 070851980

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

**Relevant identified uses:** For professional dental applications.

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

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

##### Manufacturer or supplier details

###### Manufacturer:

###### Supplier

Patterson Dentaire Canada Inc.  
1205 boul Henri-Bourassa West  
Montreal (Québec) H3M 3E6  
+1 514-745-4040

##### Emergency telephone number:

###### Canada

###### CHEMTREC

Within USA and Canada: 1-800-424-9300 (CHEMTREC, 24 hours)

Outside USA and Canada: +1-703-527-3887 (CHEMTREC, 24 hours)

#### SECTION 2: Hazard identification

**GHS classification:** Not a hazardous substance or mixture

##### Label elements

**Hazard pictograms:** None

**Signal word:** None

**Hazard statements:** None

**Precautionary statements:** None

**Hazards not otherwise classified:** None

#### SECTION 3: Composition/information on ingredients

Identification	Name	Weight %
CAS number: N/A	Undisclosed due to Confidential Business Information	<99

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### Patterson-Die Stone and Resin Die Stone

CAS number: 14808-60-7	Silica, crystalline	<0.5
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**Additional Information:** None

### SECTION 4: First-aid measures

#### Description of first-aid measures

**General notes:**

Not determined or not available.

**After inhalation:**

Loosen clothing as necessary and position individual in a comfortable position

Maintain an unobstructed airway

Get medical advice/attention if you feel unwell

**After skin contact:**

Rinse affected area with soap and water

If symptoms develop or persist, seek medical attention

**After eye contact:**

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

If symptoms develop or persist, seek medical attention

**After ingestion:**

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 available.

**Delayed symptoms and effects:**

Not determined or not available.

#### Immediate medical attention and special treatment

**Specific treatment:**

Not determined or not available.

**Notes for the doctor:**

Not determined or not available.

### SECTION 5: Fire-fighting measures

#### Extinguishing media

**Suitable extinguishing media:**

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:

Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit

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### Patterson-Die Stone and Resin Die Stone

#### Special precautions:

Carbon monoxide and carbon dioxide may form upon combustion  
Heating causes a rise in pressure, risk of bursting and combustion

### SECTION 6: Accidental release measures

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

Ensure adequate ventilation  
Ensure air handling systems are operational  
Wear protective eye wear, gloves and clothing

#### 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  
Sweep or scoop up solid material while minimizing dust generation  
Dispose of contents / container in accordance with local regulations

#### Reference to other sections:

Not determined or not applicable.

### SECTION 7: Handling and storage

#### Precautions for safe handling:

Use only with adequate ventilation.  
Avoid breathing dust.  
Do not eat, drink, smoke or use personal products when handling chemical substances.

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

Keep container tightly sealed.  
Keep container dry.  
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
Canada	Silica, crystalline	14808-60-7	Alberta OELs - 8-Hour TWA Exposure Limit: 0.025 mg/m <sup>3</sup> (respirable)
	Silica, crystalline	14808-60-7	British Columbia OELs - 8-Hour TWA Exposure Value: 0.025 mg/m <sup>3</sup> (respirable)
	Silica, crystalline	14808-60-7	Manitoba OELs - 8-Hour TWA Exposure Limit: 0.025 mg/m <sup>3</sup> (respirable fraction)
	Silica, crystalline	14808-60-7	Ontario OELs - 8-Hour TWA Exposure Limit: 0.10 mg/m <sup>3</sup> (respirable fraction)

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### Patterson-Die Stone and Resin Die Stone

Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Silica, crystalline	14808-60-7	Quebec OELs - 8-Hour TWA Exposure Value: 0.1 mg/m <sup>3</sup> (respirable)
	Silica, crystalline	14808-60-7	Saskatchewan OELs - 15 Minute Average Contamination Limit: 0.05 mg/m <sup>3</sup> (respirable fraction)

#### Biological limit values:

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

#### Information on monitoring procedures:

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls.

Biological monitoring may also be appropriate for some substances.

#### Appropriate engineering controls:

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

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

#### 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.

Wear appropriate clothing to prevent any possibility of skin contact.

##### 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.

#### General hygienic measures:

Avoid contact with skin, eyes and clothing.

Wash hands before breaks and at the end of work.

Wash contaminated clothing before reuse.

### SECTION 9: Physical and chemical properties

#### Information on basic physical and chemical properties

<b>Appearance (physical state, color):</b>	White to off-white powder
<b>Odor:</b>	Not determined or not available.
<b>Odor threshold:</b>	Not determined or not available.
<b>pH-value:</b>	7.5 - 8.5
<b>Melting/Freezing point:</b>	Not determined or not available.
<b>Boiling point/range:</b>	Not determined or not available.
<b>Flash point:</b>	Not determined or not available.
<b>Evaporation rate:</b>	Not determined or not available.
<b>Flammability (solid, gaseous):</b>	Not determined or not available.

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### Patterson-Die Stone and Resin Die Stone

<b>Explosion limit upper:</b>	Not determined or not available.
<b>Explosion limit lower:</b>	Not determined or not available.
<b>Vapor pressure:</b>	Not determined or not available.
<b>Vapor density:</b>	Not determined or not available.
<b>Density:</b>	Not determined or not available.
<b>Relative density:</b>	Not determined or not available.
<b>Solubilities:</b>	Not determined or not available.
<b>Partition coefficient (n-octanol/water):</b>	Not determined or not available.
<b>Auto/Self-ignition temperature:</b>	Not determined or not available.
<b>Decomposition temperature:</b>	Not determined or not available.
<b>Dynamic viscosity:</b>	Not determined or not available.
<b>Kinematic viscosity:</b>	Not determined or not available.
<b>Explosive properties</b>	Not determined or not available.
<b>Oxidizing properties</b>	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:** No data available.

#### 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.

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### Patterson-Die Stone and Resin Die Stone

#### Product data:

No data available.

**Substance data:** No data available.

#### 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.

#### Carcinogenicity

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

**Product data:** No data available.

**Substance data:**

Name	Species	Result
Silica, crystalline		Component may cause cancer.

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

Name	Classification
Silica, crystalline	Group 1 - Carcinogenic to humans

#### National Toxicology Program (NTP):

Name	Classification
Silica, crystalline	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:** Based on available data, the classification criteria are not met.

#### Product data:

No data available.

**Substance data:**

Name	Result
Silica, crystalline	Component affects the lungs through repeated exposure.

#### Aspiration toxicity

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### Patterson-Die Stone and Resin Die Stone

**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**

**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

### SECTION 14: Transport information

**Canadian Transportation of Dangerous Goods (TDG)**

<b>UN number</b>	Not regulated
<b>UN proper shipping name</b>	Not regulated
<b>UN transport hazard class(es)</b>	None
<b>Packing group</b>	None
<b>Environmental hazards</b>	None



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### Patterson-Die Stone and Resin Die Stone

Special precautions for user	None
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#### 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

### SECTION 15: Regulatory information

#### Canada regulations

##### Domestic substances list (DSL):

14808-60-7	Silica, crystalline	Listed
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Non-domestic substances list (NDSL): Not determined.

### SECTION 16: Other information

Abbreviations and Acronyms: None

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NFPA: 0-0-0-0

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End of Safety Data Sheet