

## SAFETY DATA SHEETS

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

070893982

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

070893974 070893990

## Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

**Initial Preparation Date:** 07.20.2001

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**Revision date:** 04.07.2022

### Patterson PIT AND FISSURE SEALANT

#### SECTION 1: Identification

##### Product Identifier

**Product Name:** Patterson PIT AND FISSURE SEALANT

**Product code:** 070893974, 070893982, 070893990

##### Recommended Use of the Product and Restriction on Use

**Relevant Identified Uses:** Dental material for use by dental professional only.

**Uses Advised Against:** Any use other than recommended above.

**Reasons Why Uses Advised Against:** Not determined or not applicable.

##### Manufacturer or Supplier Details

###### Supplier:

###### United States

Patterson Companies, Inc.  
1031 Mendota Heights Road  
St. Paul, MN 55120  
1-800-328-5536  
www.pattersoncompanies.com

##### Emergency Telephone Number:

###### United States

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

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

##### GHS Classification:

Skin irritation, category 2

Eye irritation, category 2A

Skin sensitization, category 1

Specific target organ toxicity - single exposure, category 3, respiratory tract irritation

##### Label elements

###### Hazard Pictograms:



**Signal Word:** Warning

##### Hazard statements:

H315 Causes skin irritation

H319 Causes serious eye irritation

H317 May cause an allergic skin reaction

H335 May cause respiratory irritation

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#### Precautionary Statements:

P264 Wash skin thoroughly after handling.  
P280 Wear protective gloves, protective clothing, eye protection and face protection.  
P261 Avoid breathing dust, fumes, gas, mist, vapors or spray.  
P272 Contaminated work clothing must not be allowed out of the workplace  
P271 Use only outdoors or in a well-ventilated area  
P302+P352 IF ON SKIN: Wash with plenty of water and soap.  
P332+P313 If skin irritation occurs: Get medical attention.  
P362 Take off contaminated clothing and wash it before reuse.  
P321 Specific treatment (see Sections 4-8 of this SDS and any supplemental information on the product label).  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P337+P313 If eye irritation persists: Get medical advice and attention.  
P333+P313 If skin irritation or rash occurs: Get medical advice and attention.  
P363 Wash contaminated clothing before reuse.  
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
P312 Call a POISON CENTER/doctor if you feel unwell  
P403+P233 Store in a well-ventilated place. Keep container tightly closed  
P405 Store locked up  
P410 Protect from sunlight  
P411 Store at temperatures not exceeding 27° C / 80° F.  
P501 Dispose of contents and container in accordance with local, regional, national, and international regulations.

**Hazards Not Otherwise Classified:** None

### SECTION 3: Composition/Information on Ingredients

Identification	Name	Weight %
CAS Number: Proprietary	Uncured acrylate ester monomers	55-65
CAS Number: 112945-52-5	Silica, amorphous, fumed, cryst.-free	5
CAS Number: 7681-49-4	Sodium fluoride	<2

#### Additional Information:

The specific chemical identity and/or exact percentages (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of the OSHA Hazard Communication Standard (29 CFR §1910.1200).

### SECTION 4: First Aid Measures

#### Description of First Aid Measures

##### General Notes:

Show this Safety Data Sheet to the doctor in attendance.

##### After Inhalation:

If inhaled, remove person to fresh air and place in a position comfortable for breathing. Keep person at rest. If breathing is difficult, administer oxygen. If breathing has stopped, provide artificial respiration. If

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experiencing respiratory symptoms, seek medical advice/attention.

#### After Skin Contact:

Remove contaminated clothing and shoes. Rinse skin with copious amounts of water [shower] for several minutes. Launder contaminated clothing before reuse. If symptoms develop or persist, seek medical advice/attention.

#### After Eye Contact:

Rinse eyes with plenty of water for several minutes. Remove contact lenses if present and easy to do so. Protect unexposed eye. If symptoms develop or persist, seek medical advice/attention.

#### After Swallowing:

If swallowed, DO NOT induce vomiting unless told to do so by a physician or poison control center. Rinse mouth with water. Never give anything by mouth to an unconscious person. If spontaneous vomiting occurs, place on the left side with head down to prevent aspiration of liquid into the lungs. If symptoms develop or persist, seek medical advice/attention.

### Most Important Symptoms and Effects, Both Acute and Delayed

#### Acute Symptoms and Effects:

Skin contact may result in redness, pain, burning and inflammation.

Eye contact may result in irritation, redness, pain, inflammation, itching, burning and tearing.

Dermal exposure may cause an allergic skin reaction. Symptoms may include irritation, redness, pain, rash, inflammation, itching, burning and dermatitis.

Inhalation may have adverse effects on the respiratory tract. Symptoms may include cough, breathing difficulties, sore throat and inflammation of the mucous membrane lining the respiratory tract.

#### Delayed Symptoms and Effects:

Effects are dependent on exposure (dose, concentration, contact time).

### Immediate Medical Attention and Special Treatment

#### Specific Treatment:

If respiratory symptoms persist, seek medical attention.

#### Notes for the Doctor:

Treat symptomatically.

## SECTION 5: Firefighting Measures

### Extinguishing Media

#### Suitable Extinguishing Media:

Water mist/fog, carbon dioxide, dry chemical or alcohol resistant foam.

Water spray may be used to keep fire exposed containers cool.

#### Unsuitable Extinguishing Media:

Do not use water jet.

### Specific Hazards During Fire-Fighting:

Heat may cause polymerization with rapid release of energy.

Thermal decomposition may produce irritating and toxic fumes including carbon oxides, nitrogen oxides, silicon oxides and hydrogen fluoride.

### Special Protective Equipment for Firefighters:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full-face piece operated in positive pressure mode.

### Special precautions:

Avoid contact with skin, eyes, hair and clothing. Do not breathe fumes/gas/mists/aerosols/vapors/dusts.

Move containers from fire area if safe to do so. Use water spray/fog for cooling fire exposed containers.

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Avoid unnecessary run-off of extinguishing media which may cause pollution.

#### SECTION 6: Accidental Release Measures

##### Personal Precautions, Protective Equipment, and Emergency Procedures:

Evacuate unnecessary personnel. Ventilate area. Extinguish any sources of ignition. Wear recommended personal protective equipment (see Section 8). Avoid contact with skin, eyes and clothing. Avoid breathing mist, vapor, dust, fume and spray. Do not walk through spilled material. Wash thoroughly after handling.

##### Environmental Precautions:

Prevent further leakage or spillage if safe to do so. Prevent from reaching drains, sewers and waterways. Discharge into the environment must be avoided.

##### Methods and Material for Containment and Cleaning Up:

Do not touch damaged containers or spilled material unless wearing appropriate personal protective clothing. Stop leak if you can do it without risk. Contain and collect spillage and place in suitable container for future disposal. Dispose of in accordance with all applicable regulations (see Section 13).

##### Reference to Other Sections:

For personal protective equipment see Section 8. For disposal see Section 13.

#### SECTION 7: Handling and Storage

##### Precautions for Safe Handling:

Use appropriate personal protective equipment (see Section 8). Use only with adequate ventilation. Avoid breathing mist/vapor/spray/dust. Do not eat, drink, smoke, or use personal products when handling chemical substances. Avoid contact with skin, eyes and clothing. Wash affected areas thoroughly after handling. Keep away from incompatible materials (See Section 10). Keep containers tightly closed when not in use.

##### Conditions for Safe Storage, Including Any Incompatibilities:

Store in cool, dry, well-ventilated location out of direct sunlight. Keep away from food and beverages. Protect from freezing and physical damage. Store away from heat, open flames and other sources of ignition. Keep container tightly sealed. Store away from incompatible materials (See Section 10).

#### 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
NIOSH	Silica, amorphous, fumed, cryst.-free	112945-52-5	REL: 6 mg/m <sup>3</sup>
	Silica, amorphous, fumed, cryst.-free	112945-52-5	IDLH: 3000 mg/m <sup>3</sup>
	Sodium fluoride	7681-49-4	REL-TWA: 2.5 mg/m <sup>3</sup> (as F - up to 10 hrs.)
	Sodium fluoride	7681-49-4	IDLH: 250 mg/m <sup>3</sup> (as F)
OSHA	Silica, amorphous, fumed, cryst.-free	112945-52-5	8-Hour TWA: 0.8 mg/m <sup>3</sup>
	Sodium fluoride	7681-49-4	8-Hour TWA-PEL: 2.5 mg/m <sup>3</sup> (as F)
United States(California)	Silica, amorphous, fumed, cryst.-free	112945-52-5	8-Hour TWA: 6 mg/m <sup>3</sup> (total dust; precipitated; gel)
	Silica, amorphous, fumed, cryst.-free	112945-52-5	8-Hour TWA: 3 mg/m <sup>3</sup> (respirable dust)
ACGIH	Sodium fluoride	7681-49-4	8-Hour TWA: 2.5 mg/m <sup>3</sup> (as F)

##### Biological Limit Values:

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Country (Legal Basis)	Substance	Identifier	Determinant	Specimen	Sampling time	Permissible limits
ACGIH	Sodium fluoride	7681-49-4	Fluoride	Urine	Prior to Shift	2 mg/L
	Sodium fluoride	7681-49-4	Fluoride	Urine	End of Shift	3 mg/L

#### Information on Monitoring Procedures:

Not determined or not applicable.

#### Appropriate Engineering Controls:

Emergency eye wash stations and safety showers should be available in the immediate vicinity of use or handling. Provide adequate ventilation to maintain the airborne concentrations of vapor, mists, and/or dusts below the applicable workplace exposure limits, while observing recognized national standards (or equivalent).

#### Personal Protection Equipment

##### Eye and Face Protection:

Safety glasses or goggles. Use eye protection equipment that has been tested and approved by recognized national standards (or equivalent).

##### Skin and Body Protection:

Chemical resistant, impervious gloves approved by the appropriate standards. Gloves must be inspected prior to use. Avoid skin contact with used gloves. Appropriate techniques should be used to remove used gloves and contaminated clothing. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Ensure that all personal protective equipment is approved by recognized national standards (or equivalent).

##### Respiratory Protection:

If engineering controls do not maintain airborne concentrations below the applicable workplace exposure limits, or to an acceptable level (if exposure limits have not been established), a respirator approved by recognized national standards (or equivalent) must be worn.

#### General Hygienic Measures:

When handling chemical products, do not eat, drink or smoke. Wash hands after handling, before breaks, and at the end of the workday. Avoid contact with skin, eyes and clothing. Wash contaminated clothing before reuse. Perform routine housekeeping.

### SECTION 9: Physical and Chemical Properties

#### Information on Basic Physical and Chemical Properties

Appearance	Off-white paste
Odor	Faint, characteristic
Odor threshold	Not determined or not available.
pH	Not determined or not available.
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.

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Lower flammability/explosive limit	Not determined or not available.
Vapor pressure	< 1 mm Hg / 133 Pa / Id: B
Vapor density	> 1
Density	Not determined or not available.
Relative density	Not determined or not available.
Solubilities	Nil solubility in water
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

Specific gravity	1.550
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### SECTION 10: Stability and Reactivity

#### Reactivity:

Not reactive under recommended handling and storage conditions.

#### Chemical Stability:

Stable under recommended handling and storage conditions.

#### Possibility of Hazardous Reactions:

Hazardous reactions are not anticipated under recommended conditions of handling and storage.

#### Conditions to Avoid:

Temperature extremes (less than 27 °C/80 °F, less than 5 °C/40 °F), open flames, hot surfaces, sparks, ignition sources, incompatible materials and light. Direct light will polymerize light-cured material.

#### Incompatible Materials:

Reducing and oxidizing agents, peroxides, amines.

#### Hazardous Decomposition Products:

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### 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
Silica, amorphous, fumed, cryst.-free	oral	LD50 Rat: 3160 mg/kg
Sodium fluoride	oral	LD50 Rat: 52 mg/kg
	dermal	LD50 Rat: > 2000 mg/kg

#### Skin Corrosion/Irritation

##### Assessment:

Causes skin irritation.

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#### Product Data:

No data available.

#### Substance Data:

Name	Result
Uncured acrylate ester monomers	Causes skin irritation.
Silica, amorphous, fumed, cryst.-free	Causes skin irritation.
Sodium fluoride	Causes skin irritation.

#### Serious Eye Damage/Irritation

##### Assessment:

Causes serious eye irritation.

##### Product Data:

No data available.

##### Substance Data:

Name	Result
Uncured acrylate ester monomers	Causes serious eye irritation.
Silica, amorphous, fumed, cryst.-free	Causes serious eye irritation.
Sodium fluoride	Causes serious eye irritation.

#### Respiratory or Skin Sensitization

##### Assessment:

May cause an allergic skin reaction.

##### Product Data:

No data available.

##### Substance Data:

Name	Result
Uncured acrylate ester monomers	May cause an allergic skin reaction.

#### Carcinogenicity

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

**Product Data:** No data available.

**Substance Data:** No data available.

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

Name	Classification
Uncured acrylate ester monomers	Not Applicable
Silica, amorphous, fumed, cryst.-free	Group 3
Sodium fluoride	Group 3

##### National Toxicology Program (NTP):



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Name	Classification
Uncured acrylate ester monomers	Not Applicable
Silica, amorphous, fumed, cryst.-free	Not Applicable
Sodium fluoride	Not Applicable

**OSHA Carcinogens:** Not applicable

#### 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:**

May cause respiratory irritation.

**Product Data:**

No data available.

**Substance Data:**

Name	Result
Uncured acrylate ester monomers	May cause respiratory irritation.
Silica, amorphous, fumed, cryst.-free	May cause respiratory irritation.

#### 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
Sodium fluoride	Long-term exposure to high levels of this substance may cause skeletal fluorosis. The results of skeletal fluorosis include denser bones that are more brittle or fragile than normal bone; joint pain; limited range of joint movement.

#### 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:

Eyes, skin and respiratory

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#### Symptoms Related to the Physical, Chemical, and Toxicological Characteristics:

See section 4 of this SDS.

#### Other Information:

Direct light will polymerize light-cured material.

### 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:

Name	Result
Sodium fluoride	Fish LC50 Onchorynchus mykiss: 51 mg/L (96 h)
	Aquatic Invertebrates EC50 Daphnia magna: 97 mg/L (48 h)

#### Chronic (Long-Term) Toxicity

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

**Product Data:** No data available.

##### Substance Data:

Name	Result
Sodium fluoride	Fish NOEC Oncoryhychus mykiss: 4 mg/L (21 d)
	Aquatic Invertebrates NOEC Daphnia magna: 3.7 mg/L (21 d)

#### Persistence and Degradability

**Product Data:** No data available.

**Substance Data:** No data available.

#### Bioaccumulative Potential

**Product Data:** No data available.

##### Substance Data:

Name	Result
Sodium fluoride	This substance accumulates in aquatic organisms predominantly in the exoskeleton of crustacean and in the skeleton of fish; no accumulation was reported for edible tissue.

#### Mobility in Soil

**Product Data:** No data available.

**Substance Data:** No data available.

#### Results of PBT and vPvB assessment

##### Product Data:

**PBT assessment:** This product does not contain any substances that are assessed to be a PBT.

**vPvB assessment:** This product does not contain any substances that are assessed to be a vPvB.

##### Substance Data:

###### PBT assessment:

Sodium fluoride	PBT assessment does not apply as substance is inorganic.
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**vPvB assessment:** This product does not contain any substances that are assessed to be a vPvB.

#### Other Adverse Effects:

To the best of our knowledge, polymerized material is inert. No other information is available.

### SECTION 13: Disposal Considerations

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#### Disposal Methods:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities

#### Contaminated packages:

Not determined or not applicable.

### 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):** All ingredients are listed-active or exempt.

**Significant New Use Rule (TSCA Section 5):** None of the ingredients are listed.

**Export Notification under TSCA Section 12(b):** None of the ingredients are listed.

**SARA Section 302 Extremely Hazardous Substances:** None of the ingredients are listed.

**SARA Section 313 Toxic Chemicals:** None of the ingredients are listed.

#### CERCLA:

7681-49-4	Sodium fluoride	Listed	1000 lb
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**RCRA:** None of the ingredients are listed.

**Section 112(r) of the Clean Air Act (CAA):** None of the ingredients are listed.

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#### Massachusetts Right to Know:

112945-52-5	Silica, amorphous, fumed, cryst.-free	Listed
7681-49-4	Sodium fluoride	Listed

#### New Jersey Right to Know:

7681-49-4	Sodium fluoride	Listed
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#### New York Right to Know:

112945-52-5	Silica, amorphous, fumed, cryst.-free	Listed
7681-49-4	Sodium fluoride	Listed

#### Pennsylvania Right to Know:

112945-52-5	Silica, amorphous, fumed, cryst.-free	Listed
7681-49-4	Sodium fluoride	Listed

**California Proposition 65:** None of the ingredients are listed.

#### Additional information:

US FDA Class II medical devices

### 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:** 3-0-0-0

**HMIS:** 3-0-0-D

**Initial Preparation Date:** 07.20.2001

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#### Revision Notes:

Revision Date	Notes
2022-04-07	Rev. 5

**End of Safety Data Sheet**