SAFETY DATA SHEETS

This SDS packet was issued with item:

071333475

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

071333459 071333483 071333491 071333657 071333665

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Patterson 5% Sodium Fluoride White Varnish

SECTION 1: Identification

Product Identifier

Product Name: Patterson 5% Sodium Fluoride White Varnish
Product code: 071333459, 071333475, 071333483, 071333491, 071333657, 071333665

Recommended Use of the Product and Restriction on Use

Relevant Identified Uses: Dental application.
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:

Acute toxicity (oral), category 4
Skin irritation, category 2
Eye irritation, category 2A
Skin sensitization, category 1

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
H302 Harmful if swallowed

Precautionary Statements:

P264 Wash any exposed 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
P270 Do not eat, drink or smoke when using this product
P301+P312 IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell.
P330 Rinse mouth
P302+P352 IF ON SKIN: Wash with plenty of water and soap.
P333+P313 If skin irritation or rash occurs: Get medical advice and attention.
P362 Take off contaminated clothing and wash it before reuse
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.
P321 Specific treatment (see Sections 4-8 of this SDS and any supplemental information on the product label).
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: 8050-09-7	Rosin	50-70
CAS Number: 64-17-5	Ethanol	10-30
CAS Number: 7681-49-4	Sodium fluoride	1-10

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. Take precautions to ensure your own safety before attempting rescue. Wear appropriate safety eyewear, gloves, protective clothing and respiratory protection to prevent exposure. See Section 8 of this SDS for personal protective equipment recommendations. Do not use the mouth to mouth method if victim has ingested or inhaled the product. Give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper device.

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 symptoms develop or persist, 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 gently flowing lukewarm water for 15 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.

Acute oral exposure may lead to dizziness, drowsiness, headache, breathing difficulties, nausea, vomiting, abdominal pain, and lowering of consciousness. Adverse effects are dependent on exposure (dose, concentration, contact time).

Delayed Symptoms and Effects:

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

Symptoms of exposure may be delayed.

Immediate Medical Attention and Special Treatment

Specific Treatment:

Not determined or not applicable.

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.

Unsuitable Extinguishing Media:

Do not use water jet.

Specific Hazards During Fire-Fighting:

Thermal decomposition may produce irritating/toxic fumes/gases.

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. 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). Do not get on skin, eyes or on clothing. Avoid breathing mist, vapor, dust, fume and spray. Do not walk through spilled material. Wash thoroughly after handling. Remove contaminated clothing and launder before reuse.

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:

Harmful if swallowed. Do not touch damaged containers or spilled material unless wearing appropriate personal protective clothing. Avoid breathing dust, mist, fumes, vapors or spray. 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
ACGIH	Rosin	8050-09-7	8-Hour TWA: 0.001 mg/m³
	Ethanol	64-17-5	15-Minute STEL: 1000 ppm
	Sodium fluoride	7681-49-4	8-Hour TWA: 2.5 mg/m³ (as F)
NIOSH	Rosin	8050-09-7	REL-TWA: 0.1 mg/m³ (for up to a 10-hour workday during a 40-hour workweek)
	Ethanol	64-17-5	REL-TWA: 1900 mg/m³ (1000 ppm [up to 10 hr.])
	Ethanol	64-17-5	IDLH: 3300 ppm
	Sodium fluoride	7681-49-4	REL-TWA: 2.5 mg/m³ (as F - up to 10 hrs.)
	Sodium fluoride	7681-49-4	IDLH: 250 mg/m³ (as F)
United States(California)	Rosin	8050-09-7	8-Hour TWA: 0.1 mg/m³
	Ethanol	64-17-5	8-Hour TWA-PEL: 1900 mg/m³ (1000 ppm)
OSHA	Ethanol	64-17-5	8-Hour TWA-PEL: 1900 mg/m³ (1000 ppm)

Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Sodium fluoride	7681-49-4	8-Hour TWA-PEL: 2.5 mg/m³ (as F)

Biological Limit Values:

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	Flavor odor
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	Negligible
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	~ 1.1 /ml
Solubilities	Moderate 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.

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:
Extreme heat, open flames, hot surfaces, sparks, ignition sources and incompatible materials.
Do not use in areas without adequate ventilation. Contact with acids may produce very toxic gas.

Incompatible Materials:
Acids.

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

SECTION 11: Toxicological Information

Acute Toxicity

Assessment:
Harmful if swallowed.

Product Data: No data available.

Substance Data:

Name	Route	Result
Rosin	dermal	LD50 Rat: > 2000 mg/kg
	oral	LD50 Rat: > 2000 mg/kg
Ethanol	oral	LD50 Rat: 6,200 mg/kg
	inhalation	LC50 Rat: 116.9 mg/L (4 hr [vapor])
	dermal	LD50 Rabbit: 17,100 mg/kg

Name	Route	Result
Sodium fluoride	oral	LD50 Rat: 52 mg/kg
	dermal	LD50 Rat: > 2000 mg/kg

Skin Corrosion/Irritation

Assessment:

Causes skin irritation.

Product Data:

No data available.

Substance Data:

Name	Result
Sodium fluoride	Causes skin irritation.

Serious Eye Damage/Irritation

Assessment:

Causes serious eye irritation.

Product Data:

No data available.

Substance Data:

Name	Result
Ethanol	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
Rosin	May cause an allergic skin reaction.

Carcinogenicity

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

Product Data:

Species	Result
	Not known to be carcinogenic. Note that this product contains ethanol, a confirmed animal carcinogen (A3) by the ACGIH and human carcinogen (Group 1) by the IARC; however, this is only applicable when the chemical is present in alcoholic beverages

Substance Data: No data available.

International Agency for Research on Cancer (IARC):

Name	Classification
Sodium fluoride	Group 3

National Toxicology Program (NTP): None of the ingredients are listed.

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: 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
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:
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:

Name	Result
Rosin	Fish LC50 Pimephales promelas: 1.7 mg/L (96 hr [read-across])
	Aquatic Invertebrates EC50 Daphnia magna: 1.6 mg/L (48 hr [read-across])
	Bacteria EC50 Activated sludge of a predominantly domestic sewage: > 10,000 mg/L (3 hr [read-across])

Name	Result
Ethanol	Fish LC50 Alburnus alburnus: 11,000 mg/L (96 hr [mortality])
	Aquatic Invertebrates EC50 Daphnia magna: > 10,000 mg/L (48 hr [mobility])
	Aquatic Plants EC50 Chlorella vulgaris: 275 mg/L (72 hr [growth rate])
	Bacteria LC50 Paramaecium caudatum: 5800 mg/L (4 hr [mortality])
Sodium fluoride	Fish LC50 Onchorynchus mykiss: 51 mg/L (96 hr [mortality])
	Aquatic Invertebrates EC50 Daphnia magna: 97 mg/L (48 hr [fluoride ion (F-)])
	Aquatic Plants EC50 Freshwater algae: 43 mg/L (96 hr [fluoride ion (F-)] biomass)

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 [mortality])
	Aquatic Invertebrates NOEC Daphnia magna: 3.7 mg/L (21 d [reproduction])
	Aquatic Plants NOEC Freshwater algae: 50-249 mg/L (21 d [fluoride ion (F-)])

Persistence and Degradability

Product Data: No data available.

Substance Data:

Name	Result
Rosin	Readily biodegradable in water (80% degradation after 28 days).
Ethanol	This substance is readily biodegradable in water (75% degradation after 28 days, CO2 evolution).
Sodium fluoride	Persistence assessment based on biodegradability is not relevant for metals and their inorganic compounds such as this substance.

Bioaccumulative Potential

Product Data: No data available.

Substance Data:

Name	Result
Rosin	Calculated BCF values for read-across substances range from <25 to 330 L/kg indicating no potential to a slight potential to bioaccumulate.
Ethanol	Accumulation in organisms is not to be expected (estimated BCF: 3).
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:

Name	Result
Rosin	Calculated log Koc values for this substance's category range from 0.8759 to 5.37, which fall within the range of highly mobile to immobile in soil.

Name	Result
Ethanol	This substance is highly mobile; therefore, adsorption to soil is not expected (log Koc: 0.2).
Sodium fluoride	Mobility in soil assessment based on KOC/Kd values are not relevant for metals and their inorganic compounds such as this substance.

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:

Rosin	The substance is not PBT.
Ethanol	This substance is not PBT.
Sodium fluoride	PBT assessment does not apply to metals and their inorganic compounds such as this substance.

vPvB assessment:

Rosin	The substance is not vPvB.
Ethanol	This substance is not vPvB.
Sodium fluoride	vPvB assessment does not apply to metals and their inorganic compounds such as this substance.

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

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:

64-17-5	Ethanol	Listed	100 lb
7681-49-4	Sodium fluoride	Listed	1000 lb

RCRA:

64-17-5	Ethanol	Listed	D001

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

Massachusetts Right to Know:

64-17-5	Ethanol	Listed
7681-49-4	Sodium fluoride	Listed

New Jersey Right to Know:

64-17-5	Ethanol	Listed
7681-49-4	Sodium fluoride	Listed

New York Right to Know:

64-17-5	Ethanol	Listed
7681-49-4	Sodium fluoride	Listed

Pennsylvania Right to Know:

8050-09-7	Rosin	Listed
64-17-5	Ethanol	Listed
7681-49-4	Sodium fluoride	Listed

California Proposition 65: None of the ingredients are listed.

Additional information: Not determined.

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: 2-0-0
HMIS: 2-0-0-D
Initial Preparation Date: 06.09.2022

End of Safety Data Sheet