

### COMPANY INFORMATION

**COMPANY NAME:** YOUNG INNOVATIONS, INC.  
dba Plak Smacker

**COMPANY ADDRESS:** 2260 WENDT STREET  
ALGONQUIN, IL 60102 USA

**24 HR EMERGENCY PHONE:** INFOTRAC 1-800-535-5053  
OUTSIDE U.S. 1-352-323-3500

**COMPANY WEB ADDRESS:** www.youngspecialties.com

**STANNOUS FLUORIDES, 0.4% / BRILLIANCE PROPHY PASTE  
NO FLAVOR OR FLUORIDE MEDIUM-GRIT / BRILLIANCE  
PROPHY PASTE COARSE-GRIT MINT FLUORIDE**

**DOCUMENT NUMBER:** 11421, 11422, 11425, 11426,  
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### SECTION I: PRODUCT IDENTIFICATION

Stannous Fluorides, 0.4%  
Brilliance Prophy Paste No Flavor or Fluoride Medium-Grit  
Brilliance Prophy Paste Coarse-Grit Mint Fluoride

#### Relevant Identified Uses of the Substance or Mixture and Uses Advised Against:

**Recommended Use:** For cleaning and polishing procedures as a part of a professionally administered dental prophylaxis treatment.

**Restrictions on Use:** For professional use only. Do not use on persons hypersensitive to fluoride.

### SECTION II: HAZARDS IDENTIFICATION

#### Classification of the Substance or Mixture:

The product as manufactured is a solid composed of encapsulated chemical ingredients. No hazardous exposures are anticipated during normal product handling and use conditions.

GHS Classification		
Health	Environmental	Physical
Acute Oral Toxicity Category 4 (H302) Skin Irritant Category 3 (H315) Eye Irritant Category 2B (H320)	Not Hazardous	No Physical Hazards

#### Label Elements:

Hazard pictograms (GHS-US)



#### Signal Word: Warning

Hazard Phrases	Precautionary Phrases
H302 – Harmful if swallowed H315 – Causes skin irritation H320 – Causes eye irritation	P264 – Wash thoroughly after handling. P270 – Do not eat, drink or smoke when using this product. P280 – Wear protective gloves, protective clothing, eye protection and face protection. P301+P312 – IF SWALLOWED: call a POISON CENTER or doctor/physician IF you feel unwell. P302+P352 – IF ON SKIN: Wash with plenty of soap and water P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P321 – See section 4 for specific treatment. P330 – Rinse mouth. P332+P313 - If skin irritation occurs: Get medical advice/attention P337+P313 - If eye irritation persists: Get medical advice/attention P362 – Take off contaminated clothing and wash before reuse. P501 - Dispose of contents and container in accordance with local and national regulations.

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**Other Hazards:** None known.

**Unknown acute toxicity (GHS-US):** No data available.

**SECTION III: COMPOSITION/INFORMATION ON INGREDIENTS**

**Substances:** None.

**MIXTURE**

Hazardous Components	C.A.S. #	Classification	WT %
Sodium Fluoride	7681-49-4	Acute Oral Tox. 3, H301 Skin Irrit. 2, H315 Eye Irritation, Category 2, H319	1-10%

The exact concentration is being withheld as a trade secret.

Refer to Section 16 for the full text of the GHS Classifications.

**SECTION IV: FIRST AID MEASURES**

Description of First Aid Measures	
<b>Eye</b>	Immediately flush victim's eyes with large quantities of water for several minutes, holding the eyelids apart. Get medical attention if irritation persists.
<b>Skin</b>	Remove contaminated clothing. Wash skin thoroughly with soap and water. If irritation develops, get medical attention. Launder clothing before re-use.
<b>Inhalation</b>	Not applicable.
<b>Ingestion</b>	If more than the normal amount used for cleaning is swallowed, drink 1-2 glasses of milk. Get immediate medical attention.

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

Not expected to present a significant hazard under anticipated conditions of normal use. May cause eye and skin irritation. May be harmful if swallowed.

**Indication of Any Immediate Medical Attention and Special Treatment Needed**

Immediate medical attention should not be required except in cases of high quantities of ingestion.

**Note to Physicians (Treatment, Testing, and Monitoring):** Treat symptomatically.

**SECTION V: FIRE-FIGHTING MEASURES**
**Extinguishing Media**

Use Chemical Foam, CO2, Dry Chemical Powder, or Water Spray. NOTE: Water may be ineffective in extinguishing the fire.

**Special Hazards Arising from the Substance or Mixture**

Not determined.

Advice for Fire-Fighters	
<b>Fire Fighting Procedures</b>	General: Evacuate all personnel; use protective equipment for fire-fighting.
<b>Precautions for Fire Fighters</b>	Firefighters should wear full emergency equipment and approved positive pressure self-containing breathing apparatus.

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#### Recommended Protective Equipment for Fire Fighters



EYES/FACE	HANDS	RESPIRATORY	THERMAL
			

### SECTION VI: ACCIDENTAL RELEASE MEASURES

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

Remove all ignition sources such as open flames, spark producing equipment, pilot lights, etc. Avoid contact with skin, eyes or clothing. Wear appropriate protective clothing as described in Section 8.

#### Recommended Personal Protective Equipment for Containment and Clean-Up

EYES/FACE	HANDS	RESPIRATORY	SKIN
			

#### Environmental Precautions

Prevent entry into sewers and waterways. Report releases as required by local, state, and national authorities. Avoid contact SDS-004.005 Page 4 of 6 with skin, eyes or clothing. Wear appropriate protective clothing as described in Section 8.

#### Methods and Material for Containment and Cleaning up

Clean up with absorbent material and remove residue with alcohol damp wipe. Rinse spill area with water. Use non-sparking tools and equipment.

#### Reference to Other Sections

Refer to Section 8 for Personal Protective Equipment and Section 13 for Disposal information.

### SECTION VII: HANDLING AND STORAGE

#### Precautions for Safe Handling

Avoid contact with the eyes, skin and clothing. Wear protective clothing and equipment as described in Section 8. Wash thoroughly after handling. Keep away from heat, sparks, flames, and other sources of ignition.

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

Store in a cool, dry, well-ventilated area away from heat, direct sunlight and all sources of ignition. Store away from incompatible materials. Keep container closed to prevent contamination.

**Specific End Use (s):** No specific end use other than that mentioned in Section 1.2.

### SECTION VIII: EXPOSURE CONTROLS / PERSONAL PROTECTION

**Control Parameters:** No additional information available.

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### Exposure Controls

**Appropriate Engineering Controls:** None required under normal product handling conditions.

### Individual Protection Measures (PPE)



**Specific Eye/face Protection:** Chemical safety goggles should be worn if needed to avoid eye contact.

**Specific Skin Protection:** Wear impervious gloves such as natural rubber or neoprene if needed to avoid skin contact. Consult glove supplier for thickness and breakthrough times.

**Specific Respiratory Protection:** None should be needed under normal use. If exposure limits are exceeded an approved respirator or supplied air respirator appropriate should be used. Respirator selection and use should be based on contaminant type, form and concentration. Follow applicable regulations and good Industrial Hygiene practice.

**Specific Thermal Hazards:** None required.

### Recommended Personal Protective Equipment

EYES/FACE	HANDS	RESPIRATORY	SKIN
			

### SECTION IX: PHYSICAL AND CHEMICAL PROPERTIES

#### Information on Basic Physical and Chemical Properties:

<b>Physical state</b>	Paste	<b>Relative density</b>	1.50 to 2.00g/cc @25°C/77°F
<b>Appearance</b>	Uniform paste	<b>Melting Point</b>	Not determined
<b>Odor</b>	Characteristic	<b>Boiling Point</b>	Not determined
<b>Odor threshold</b>	Not determined	<b>Solubility in Water</b>	Partially Soluble
<b>pH</b>	7.50-9.50	<b>Other Data</b>	Not applicable – Product not regulated for VOC Content at State of Federal Level.

**Other Information:** None.

### SECTION X: STABILITY AND REACTIVITY

**Reactivity:** Stable at ambient temperature and under normal conditions of use.

**Chemical Stability:** Stable at standard temperature and pressure.

**Possibility of Hazardous Reactions:** None known.

**Conditions to Avoid:** Keep away from heat, sparks, incompatible materials, flames and other sources of ignition.

**Incompatible materials:** High temperatures, strong oxidizing agents. Keep away from sunlight and open flames.

**Hazardous Decomposition Products:** None known.

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### SECTION XI: TOXICOLOGICAL INFORMATION

#### Information on Toxicological Effects

Sodium Fluoride

Acute Oral toxicity – Rat – LD50: 52 mg/kg

Acute Dermal Toxicity – Rat – LD50: 175 mg/kg

### SECTION XII: ECOLOGICAL INFORMATION

#### **Toxicity**

Sodium Fluoride

Harmful to aquatic life with long lasting effects.

Oncorhynchus mykiss – LC50 static – 96h: 38-68 mg/L

Lepomis macrochirus – LC50 semi static – 96h: 830 mg/L

Pimephales promelas – LC50 semi static – 96h: 180 mg/L

Lepomis macrochirus – LC50 semi static – 96h: 530 mg/L

Pseudokirchneriella subcapitata – EC50 – 96h: 272 mg/L

Desmodesmus subspicatus – EC50 static – 72h: 850 mg/L

Daphnia magna – EC50 static – 48h: 98 mg/L

Daphnia magna – EC50 – 48h: 338 mg/L

**Persistence and Degradability:** No data available

**Bio-accumulative Potential:** No data available

**Mobility in Soil:** No data available

**Results of PBT and vPvB Assessment:** No data available

**Other Adverse Effects:** No data available

### SECTION XIII: DISPOSAL CONSIDERATIONS

#### Waste Treatment Methods

**Regulations:** Dispose in accordance with all national and local regulations.

**Households:** Product used in household may be disposed of in refuse or sewer.

**Properties (Physical/Chemical) Affecting Disposal:** None currently known.

**Waste Treatment Recommendations:** Dispose in accordance with national and local regulations.

**US EPA:** This material is not considered a hazardous waste under the United States Resource Conservation and Recovery Act when disposed.

### SECTION XIV: TRANSPORT INFORMATION

UN number: Not applicable

UN proper shipping name: Not applicable

Transport hazard class(es): Not applicable

Packing group: Not applicable

Environmental hazards: Not applicable

Special precautions for user: Not applicable

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable

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**SECTION XV: REGULATORY INFORMATION**

**Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture:**

**U.S. Federal Regulations**

**Sodium Fluoride**

- TSCA: Complies
- DSL: Complies
- NDSL: Complies
- EINECS/ELINCS: Complies
- ENCS: Complies
- IECSC: Complies
- KECL: Complies
- PICCS: Complies
- AICS: Complies
- SARA 311/312 Hazard Categories: Acute health hazard
- Clean Water Act Hazardous Substance: Sodium Fluoride CAS 7681-49-4, reportable quantity 1000lb
- Comprehensive Environmental Response Compensation and Liability Act: Sodium Fluoride CAS 7681-49-4, reportable quantity 1000lb
- New Jersey State Right to Know Component: Sodium Fluoride CAS 7681-49-4
- Massachusetts State Right to Know Component: Sodium Fluoride CAS 7681-49-4
- Pennsylvania State Right to Know Component: Sodium Fluoride CAS 7681-49-4

**Chemical Safety Assessment:** None required.

**SECTION XVI: OTHER INFORMATION**

**HMIS Hazard Rating:**

Health: 1  
Flammability: 0  
Reactivity: 0

**Full text of Classification abbreviations used in Section 2 and 3**

- H301: Acute Oral Toxicity, Category 3
- H302: Acute Oral Toxicity, Category 4
- H315: Skin corrosion/irritation, Category 2
- H319: Serious eye damage/eye irritation, Category 2A
- H320: Serious eye damage/eye irritation, Category 2Bd.

*Manufacturer disclaimer:*

*FOR DENTAL USE ONLY. The information and recommendations are taken from sources (raw material MSDS(s), SDS(s) and manufacturers knowledge) believed to be accurate; however, the manufacturer makes no warranty with respect to the accuracy of the information or the suitability of the recommendation and assumes no liability to any user thereof. Each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.*