

# YOUNG™

## SAFETY DATA SHEET

### SECTION I: Identification

**Product Identifier:**

**Product Name:** D-Lish® 5% Sodium Fluoride Varnish  
**Part/Item Number:** 295732, 295733, 212420, 212450, 213420, 213450, 214420, 214450, 218450, 295484

**Recommended Use of the Substance or Mixture and Restrictions on Use:**

**Recommended Use:** Dental varnish  
**Restrictions on Use:** For professional use only

**Details of the Supplier:**

**Manufactured for:** Young Dental Manufacturing  
13705 Shoreline Court East  
Earth City, MO 63045  
1.800.325.1881

**Emergency Phone Number:**

**Infotrac:**  
**24-Hour Number-** (U.S.) 1-800-535-5053  
**Outside U.S.-** 1-352-323-3500

### SECTION II: Hazard(s) Identification

Health effects are based on the unmixed/uncured material.

**Classification of the Substance or Mixture:**

Health Hazard	Physical Hazard
Acute Toxicity Category 4	Flammable Liquid Category 3

**Label Elements:**

**Hazard Symbol:**



**Signal Word:** Warning

**Hazard Statement(s):**

Flammable liquid and vapour.  
Harmful if swallowed

**Precautionary Statement(s):**

Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
Wear protective gloves/eye protection.  
Wear protective clothing.  
Avoid breathing vapours.  
IF SWALLOWED: Call a doctor if you feel unwell.

Dispose of contents/container in accordance with local/regional/national/international regulations.

**Other Hazards:** Material should only be used with extreme caution in individuals who may have control over their swallowing reflex (e.g. pre-school children and the disabled). Use only for intended scope of application.

### **SECTION III: Composition/Information on Ingredients**

**Mixture:**

<b>Component</b>	<b>CAS #</b>	<b>WT%</b>
Ethanol	64-17-5	10-25%
Sodium Fluoride	7681-49-4	2.5-5%

### **SECTION IV: First-Aid Measures**

**Description of First Aid Measures:**

**Inhalation** – Supply fresh air; consult doctor in case of complaints.

**Skin contact** – Generally the product does not irritate the skin.

**Eye contact** – Rinse opened eye for several minutes under running water.

**Ingestion** – Swallowing of larger amounts can lead to nausea, vomiting and/or diarrhea. Immediately call a doctor.

**Most Important Symptoms and Effects, Acute and Delayed:** No further relevant information available.

**Indication of Any Immediate Medical Attention and Special Treatment Needed:** No further relevant information available.

### **SECTION V: Firefighting Measures**

**Extinguishing media:** Suitable extinguishing agents include CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**Special Hazards Arising from the Substance or Mixture:** No further relevant information available.

**Advice for Fire-Fighters:** No further relevant information available.

### **SECTION VI: Accidental Release Measures**

**Personal Precautions, Protective Equipment, and Emergency Procedures:** Wear protective equipment. Keep unprotected persons away.

**Environmental Precautions:** Do not allow to enter sewers/surface or ground water.

**Methods and Materials for Containment and Cleaning Up:** Pick up mechanically.

### **SECTION VII: Handling and Storage**

**Precautions for Safe Handling:** For dental use only.

**Conditions for Safe Storage, Including Any Incompatibilities:** Keep ignition sources away – Do not smoke. Do not store together with acids. See storage instructions on package. Keep receptacle tightly sealed.

### **SECTION VIII: Exposure Controls/Personal Protection**

**Control Parameters:**

Occupational Exposure Limits:			
Component	PEL	REL	TLV
Ethanol	Long-term value: 1900 mg/m <sup>3</sup> , 1000 ppm	Long-term value: 1900 mg/m <sup>3</sup> , 1000 ppm	Short-term value: 1880 mg/m <sup>3</sup> , 1000 ppm

**Exposure Controls:**

**Appropriate Engineering Controls** – Not applicable

**Individual Protection Measures (PPE)** – The usual precautionary measures for handling chemicals should be followed.

**SECTION IX: Physical and Chemical Properties**

Information on Physical and Chemical Properties:	
<b>Appearance:</b>	Colorless fluid
<b>Odor:</b>	Characteristic of flavor
<b>Odor Threshold:</b>	Not available
<b>pH:</b>	Not determined
<b>Melting point/freezing point:</b>	Not determined
<b>Initial boiling point and boiling range:</b>	Not determined
<b>Flash point:</b>	36 °C (97 °F)
<b>Evaporation rate (Butyl Acetate =1):</b>	Not available
<b>Flammability (solid, gas):</b>	Not applicable
<b>Upper/lower flammability or exposure limits:</b>	Not available
<b>Vapor pressure:</b>	Not available
<b>Vapor density (Air = 1):</b>	Not available
<b>Density at 20 °C (68 °F):</b>	1.02 g/cm <sup>3</sup> (8.512 lbs/gal)
<b>Solubilit(ies):</b>	Not miscible or difficult to mix
<b>Partition coefficient: n-octano/water</b>	Not available
<b>Auto-ignition temperature:</b>	Product is not self-igniting
<b>Decomposition temperature:</b>	Not available
<b>Viscosity:</b>	Not determined

**SECTION X: Stability and Reactivity**

**Reactivity:** None known

**Chemical Stability:** Not available

**Possibility of hazardous reactions:** Contact with acids releases toxic gases.

**Conditions to avoid:** No further relevant information available.

**Incompatible materials:** No further relevant information available.

**Hazardous decomposition products:** No dangerous decomposition products known.

**SECTION XI: Toxicological Information**

**Potential Health Effects:**

**Eye Contact** – No irritating effect

**Skin Contact** – No irritant effect or sensitizing effects known

**Acute Toxicity Data:**

**Sodium Fluoride** – LD50 (oral rat) 52mg/kg

**Medical Conditions Aggravated by Exposure:** Individuals with pre-existing skin disease may be at increased risk from exposure. May cause skin sensitization in susceptible individuals.

**Carcinogenicity:** Sodium fluoride and ethanol are not known to be a carcinogen or potential carcinogen by NTP (National Toxicological Program) or OSHA (Occupational Safety and Health Administration). IARC (International Agency for the Research of Cancer) lists ethanol as Group 1 but in alcoholic beverages consumption only. This product is not an alcoholic beverage.

## **SECTION XII: Ecological Information**

**Toxicity:** No further relevant information available

**Persistence and Degradability:** No further relevant information available

**Bio-accumulative potential:** No further relevant information available

**Mobility in Soil:** No further relevant information available

**Other Adverse Effects:** Do not allow undiluted product or large quantities of it to reach ground water, water course, or sewage system. Water hazard class I (self-assessment): slightly hazardous for water

## **SECTION XIII: Disposal Considerations**

**Waste treatment methods recommendation:** Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

**Uncleaned packagings recommendation:** Dispose of in accordance with all Federal, State and Local regulations.

## **SECTION XIV: Transport Information**

**DOT:**

**Proper Shipping Name** – Ethanol solution

**Hazard Class** – 3

**UN Number** – UN 1170

**Packing Group** – III

**Packaging** - See 49 CFR 173.203 for authorized specification non-bulk packagings.

**Limited Quantity and Consumer Commodity Exception** - See 49 CFR 173.150 for limited quantity and consumer commodity exceptions (valid until 12/31/2020). Inner packagings which do not exceed 5 L and outer packagings not exceeding 30 kg are authorized.

**Hazardous Substances (RQ)** – Ethanol is not listed as a hazardous substance.

**IATA:**

**Proper Shipping Name** – Ethanol solution

**Hazard Class** – 3

**UN Number** – UN 1170

**Packing Group** – III

**Limited Quantity Exception** – See Packing Instruction Y344. Up to 5 L maximum quantity per inner package (depending on type of package used) and 10 L / 30 kg gross weight maximum per package. Combination packages are required.

**Consumer Commodity Exception** - See Packing Instruction Y963. If inner packages are not more than 500 mL and material is packaged for consumer use, it may be reclassified as ID8000, Consumer Commodity, Class 9. Gross weight is 30 kg.

**Passenger Aircraft Limitation** - See Packing Instruction 355. Up to 10 L maximum quantity per inner package (depending on inner package used) and 60 L maximum net quantity per package. Combination and single packages are permitted

**Cargo Aircraft Limitation** - See Packing Instruction 366. Up to 25 L maximum quantity per inner package (depending on inner package used) and 220 L maximum net quantity per package. Combination and single packages are permitted.

**IMDG/IMO:**

**Proper Shipping Name** – Ethanol (Ethyl Alcohol)

**Hazard Class** – 3

**UN Number** – UN 1170

**Packing Group** – III

## **SECTION XV: Regulatory Information**

**US State Regulations:**

**California Proposition 65:**

**Chemicals known to cause cancer**- None of the ingredients are listed.

**Chemicals known to cause reproductive toxicity for females** – None of the ingredients are listed.

**Chemicals known to cause reproductive toxicity for males** – None of the ingredients are listed.

**Chemicals known to cause developmental toxicity** – Ethanol

**US Federal Regulations:**

**SARA TITLE III:**

**Section 355** – None of the ingredients are listed.

**Section 313** – **None of the ingredients are listed.**

**EPA Toxic Substances Control Act (TSCA) Status** – All ingredients are listed.

**International Regulations:** Not determined

## **SECTION XVI: Other Information**

**Supersedes:** 22 October 2015

**Date Revised:** 07 August 2017

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