

## **SAFETY DATA SHEETS**

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

070387696

**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).**

070387621 070387639 070387647 070387654 070387688 070387704 070455774 070476333 070876573 070876581



# M A T E R I A L   S A F E T Y   D A T A   S H E E T

24-Hour Emergency #: (U.S.) 1-800-535-5053 / (Outside U.S.) 352-323-3500

## SECTION I: Product & Company Identification

Product Name: **D-Lish® 5% NaF Varnish**  
Catalog Numbers: 211420, 211450, 212420, 212450, 213420, 213450, 214420, 214450, 218450  
Product Class: Fluoride Varnish  
Manufactured for: Young Dental Manufacturing  
13705 Shoreline Court East  
Earth City, MO 63045  
1.800.325.1881

## SECTION II: Health Hazard Information

**Appearance:** Colorless, viscous fluid with aroma characteristic of flavor  
**Health Hazards:** No irritant or sensitizing effects  
**Other hazards:** Material should only be used with extreme caution in individuals who may have limited control over their swallowing reflex (e.g. pre-school children and the disabled)  
**NFPA Ratings:** Health (0); Flammability (3); Reactivity (0)

## SECTION III: Hazardous Components

| Component       | CAS #     | %        | Toxicity Data           |
|-----------------|-----------|----------|-------------------------|
| Sodium Fluoride | 7681-49-4 | 2.5 – 5% | LD50 (oral rat) 52mg/kg |
| Ethanol         | 64-17-5   | 10 – 25% | N/A                     |

## SECTION IV: First Aid Procedures

**Ingestion** – Swallowing larger amounts can lead to nausea, vomiting and/or diarrhea. Seek medical attention.  
**Eye contact** – Rinse opened eye for several minutes under running water.  
**Inhalation** – Supply fresh air; seek medical attention if irritation persists.  
**Skin contact** – Generally the product does not irritate the skin.

## **SECTION V: Fire Fighting Measures**

**Extinguishing media:** Water, carbon dioxide, foam, dry chemicals; fight larger fires with water or alcohol resistant foam

**Special fire-fighting instructions:** None

**Fire and explosion hazards:** N/A

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

Wear protective equipment. Keep unprotected persons away. Do not allow to enter sewers, surface or ground water. Pick up mechanically.

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

**Handling:** For dental use only. Keep ignition sources away.

**Storage:** Do not store together with acids. Keep receptacle tightly sealed.

## **SECTION VIII: Personal Protection**

**Protective wear:** Not required

**Ventilation:** Local Exhaust. No respiratory protection required.

**Hygiene measures:** Keep away from food, beverages and feed. Wash hands after use.

## **SECTION IX: Physical and Chemical Properties**

|                               |  |
|-------------------------------|--|
| <b>Solubility:</b>            | Not soluble in water   |
| <b>Boiling point:</b>         | Unknown  |
| <b>pH:</b>                    | Unknown  |
| <b>Density @ 20°C (68°F):</b> | 1.02 g/cm <sup>3</sup> (8.512 lbs/gal)                       |
| <b>Melting point:</b>         | Unknown  |
| <b>Flash point:</b>           | 36°C (97°F)  |
| <b>Appearance:</b>            | Colorless, viscous fluid with aroma characteristic of flavor |

## **SECTION X: Stability and Reactivity**

|   |   |
|---|---|
| <b>Stability:</b>                             | Stable                                  |
| <b>Materials/conditions to avoid:</b>         | N/A                                     |
| <b>Hazardous decomposition of byproducts:</b> | None known                              |
| <b>Hazardous polymerization:</b>              | Will not occur                          |
| <b>Possible hazardous reactions:</b>          | Contact with acids releases toxic gases |
| <b>Explosion hazard:</b>                      | None; product is not self-igniting      |

## **SECTION XI: Toxicological Information**

No irritant or sensitizing effects. No ingredients are listed on IARC or NTP lists.

## **SECTION XII: Ecological Information**

Do not allow undiluted product or large quantities to reach ground water or sewage system. Water hazard class 1 (self-assessment)

## **SECTION XIII: Disposal Considerations**

Dispose of in accordance with all Federal, State and Local regulations. Do not dispose with household garbage.

## **SECTION XIV: Transport Information**

UN number: UN1170

UN proper shipping name: DOT, IATA: Ethanol Solution

ADR: 1170 Ethanol Solution (Ethyl Alcohol Solution)

IMDG: Ethanol Solution (Ethyl Alcohol Solution)

DOT, ADR, IMDG, IATA hazard class: 3 Flammable liquids

Marine pollutant: No

## **SECTION XV: Regulatory Information**

No ingredients are listed in any of the following: Section 355 (extremely hazardous substances), Section 313 (specific toxic chemical listings), chemicals known to cause cancer per Proposition 65, EPA

All ingredients are listed in the TSCA (Toxic Substances Control Act).

## **SECTION XVI: Other Information**

N/A

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The information contained herein is provided in good faith and is believed to be correct as of the date hereof. However, Young Dental Manufacturing makes no recommendation as to the comprehensiveness or accuracy of the information. It is expected that individuals receiving the information will exercise their independent judgment in determining its appropriateness for particular purpose.

NO REPRESENTATIONS, OR WARRANTIES, EITHER EXPRESSED OR IMPLIED OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO THE INFORMATION SET FORTH HEREIN OR TO THE PRODUCT TO WHICH THE INFORMATION REFERS.

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# YOUNG™

DENTAL MANUFACTURING

## S A F E T Y   D A T A   S H E E T

### SECTION I: Identification

**Product Identifier:**

**Product Name:** D-Lish® 5% Sodium Fluoride Varnish  
**Part/Item Number:** 211420, 211450, 212420, 212450, 213420, 213450, 214420, 214450, 218450

**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:**

| Component       | CAS #     | WT%    |
|-----------------|-----------|--------|
| 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:<br>1900 mg/m <sup>3</sup> , 1000 ppm | Long-term value:<br>1900 mg/m <sup>3</sup> , 1000 ppm | Short-term value:<br>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:** 30 April 2014

**Date Revised:** 10 June 2015

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