

## **SAFETY DATA SHEETS**

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

073242237

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

070448316 070448324

**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).**

070387902 070387910 073239308 073239316 073239324 073239332 073239340

**SAFETY DATA SHEET**  
**KOLORZ CLEARSHIELD FLUORIDE VARNISH**

Page 1 of 6  
Issued: 11/10/14  
Revision No. 0  
395865

**SECTION 1: IDENTIFICATION**

**Product Identifier**

Product Name: KOLORZ CLEARSHIELD FLUORIDE VARNISH

**Other Means of Identification**

Product Item Code(s): 799501, 799502, 799503, 799504, 799506, 799507, 799512, 799513

**Recommended use of the chemical and restriction on use**

Recommended Use: Dental Product

Restrictions on Use: For use by dental professional only

**Name, address, telephone number of the supplier:**

Company Address: DMG America LLC  
242 South Dean Street  
Englewood, NJ 07631  
USA

Information Telephone Number: 201-894-5500

**Emergency Telephone Number:** 800-535-5053 (Infotrac)

**SECTION 2: HAZARD(S) IDENTIFICATION**

**GHS Classification**

- Flammable liquid category 2.
- Acute Toxicity category 3.
- Eye Irritant category 2.
- Skin Sensitizer category 1.

**Signal Word:** Danger

**Hazard Statements:**

H225: Highly flammable liquid and vapor.

H302: Harmful if swallowed.

H319: Causes serious eye irritation.

**Pictograms:**



Flammable   Harmful  
                    Irritant

**Precautionary Statements:**

P210: Keep away from heat. Sparks, open flames, and hot surfaces. No smoking.

P102: Keep out of the reach of children.

P264: Wash hands thoroughly after handling.

**SAFETY DATA SHEET**  
**KOLORZ CLEARSHIELD FLUORIDE VARNISH**

Page 2 of 6  
Issued: 11/10/14  
Revision No. 0  
395865

**Hazards not otherwise classified:** None

**Unknown Acute Toxicity:** No ingredient with unknown toxicity.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

| Ingredients     | CAS No./ EINECS No.  | Percent<br>(By Weight) |
|-----------------|----------------------|------------------------|
| Ethanol         | 64-17-5/200-578-6    | 20-35%                 |
| Sodium Fluoride | 7681-49-4/231-667-8  | 4-6%                   |
| Synthetic Resin | 68990-02-3/273-574-5 | 50-70%                 |

**SECTION 4: FIRST AID MEASURES**

**Eye Contact:** Flush eyes with large quantities of water for at least 15 minutes, holding the eyelids apart. Get medical attention if irritation develops or persists.

**Skin Contact:** Wash skin with plenty of soap and water. Get medical attention if irritation develops.

**Ingestion:** Do not induce vomiting. If conscious, rinse out mouth with water and give copious amounts of milk, or water if milk is not available. Never give anything by mouth to an unconscious person. If symptoms persist, get immediate medical attention.

**Inhalation:** Move victim to fresh air. If breathing is difficult have qualified personnel administer oxygen. Get medical attention if irritation persists.

**Most Important symptoms/effects, acute and delayed:**

May cause eye and skin irritation. May cause skin sensitization. May be harmful if swallowed.

**Indication of immediate medical attention and special treatment needed:**

No information available.

**SECTION 5: FIRE FIGHTING MEASURES**

**Extinguishing Media:** Use media appropriate for surrounding fire.

**Specific hazards arising from the chemical:** Highly flammable liquid and vapor.

**Special Protective equipment and precautions for firefighters:** Firefighters should wear full emergency equipment and positive pressure self-contained breathing apparatus.

**Unusual Fire/Explosion Hazards:** None under normal conditions of use.

**Known or Anticipated Hazardous Products of Combustion:** Carbon monoxide, carbon dioxide and toxic fumes.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures:** Avoid contact with eyes, skin and clothing. Use appropriate protective equipment as described in Section 8.

**Environmental Precautions:** Prevent spill from entering waterways.

**SAFETY DATA SHEET**  
**KOLORZ CLEARSHIELD FLUORIDE VARNISH**

Page 3 of 6  
Issued: 11/10/14  
Revision No. 0  
395865

**Methods and materials for containment and cleaning up:** Wipe up or collect using an inert absorbent material and place in appropriate containers for disposal. Rinse spill area with water. Prevent spill from entering sewers and water courses. Report releases as required by local, state and federal authorities.

**SECTION 7: 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 with soap and water after handling. Keep containers tightly closed when not in use.

Do not reuse containers. Empty containers retain product residues that can be hazardous. Follow all safety precautions when handling empty containers.

**Conditions for safe storage including any incompatibilities:** Store in a cool, dry, well-ventilated area. Do not store above 25°C (77°F). Keep out of direct sunlight. Keep away from heat and ignition sources. Keep out of reach of children.

**SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION**

**Exposure Control Parameters:** The parameters are not provided for the product itself. They are provided for the ingredients listed below:

**Occupational Exposure Limits:**

|                               |                                                                  |
|-------------------------------|------------------------------------------------------------------|
| Sodium Fluoride (as Fluoride) | 2.5mg/m <sup>3</sup> TWA ACGIH<br>2.5mg/ m <sup>3</sup> TWA OSHA |
| Ethanol                       | 1000 ppm STEL ACGIH<br>1900 mg/m <sup>3</sup> TWA OSHA           |

**Appropriate Engineering Controls:** No special ventilation normally required. For bulk handling, use ventilation that is adequate to maintain exposure levels below the occupational exposure limits.

**Individual Protection Measures:**

**Personal Protective Equipment**

**Eye Protection:** Safety glasses recommended.

**Skin Protection:** Wear impervious gloves.

**Respiratory Protection:** None should be needed for normal use. If the exposure limits are exceeded an approved respirator with particulate cartridges or supplied air respirator appropriate for the form and concentration of the contaminants should be used. Selection and use of respiratory equipment must be in accordance with applicable regulations and good industrial hygiene practice.

**Other Protective Clothing or Equipment:** None needed for normal use. Impervious clothing as needed to avoid contamination of personal clothing for bulk handling.

**SAFETY DATA SHEET**  
**KOLORZ CLEARSHIELD FLUORIDE VARNISH**

Page 4 of 6  
Issued: 11/10/14  
Revision No. 0  
395865

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance:** Off white to yellow colored liquid.

**Odor:** Characteristic

**Odor Threshold:** Not available

**pH:** Not available

**Melting Point:** Not applicable

**Freezing Point:** Not available

**Boiling Point/Range:** Not available

**Flashpoint:** Not available

**Evaporation Rate:** Not available

**Flammability (solid, gas):** Not available

**Upper/lower flammability or explosive limits:**

LEL: Not available

UEL: Not available

**Vapor Pressure:** Not available

**Vapor Density:** Not available

**Relative Density:** Not available

**Solubility in water:** Slightly soluble

**Partition coefficient**

**(n-octanol/water):** Not available

**Autoignition Temperature:** Not available

**Decomposition Temperature:** Not available

**Viscosity:** Not available

**SECTION 10: STABILITY AND REACTIVITY**

**Reactivity:** None known

**Chemical Stability:** Stable

**Possibility of Hazardous Reactions:** None under normal conditions of use

**Conditions to Avoid:** Keep away from ignition sources.

**Incompatible Materials:** Avoid oxidizing agents and strong acids.

**Hazardous Decomposition Products:** May produce carbon monoxide, carbon dioxide and toxic fumes.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**Information on Toxicological Effects**

Toxicological data not available for the product itself. The data provided are for the ingredients listed below.

Sodium Fluoride: Oral rat LD<sub>50</sub>: 52 mg/kg

Ethanol: Oral rat LD<sub>50</sub>: 7060 mg/kg

**SAFETY DATA SHEET**  
**KOLORZ CLEARSHIELD FLUORIDE VARNISH**

Page 5 of 6  
Issued: 11/10/14  
Revision No. 0  
395865

**Likely Routes of Exposure and the Symptoms related to the Physical, Chemical and Toxicological**

**Characteristics:**

**Eyes:** Direct contact causes eye irritation.

**Skin:** Prolonged skin contact may cause irritation.

**Inhalation:** No adverse effects expected, under normal conditions of use.

**Ingestion:** May cause salivation, nausea, vomiting, abdominal pain, headaches, or dizziness.

**Chronic Health Effects:** Not expected under normal conditions of use. Repeated overexposure to Sodium Fluoride may cause fluorosis.

**Mutagenicity:** No data available.

**Carcinogenicity:** Not known to be as carcinogen or potential carcinogen by NTP (National Toxicological Program), IARC (International Agency for the Research of Cancer) or OSHA (Occupational Safety and Health Administration).

**Medical Conditions Aggravated by Exposure:** Individuals with pre-existing skin disease may be at increased risk from exposure.

**SECTION 12: ECOLOGICAL INFORMATION**

**Eco toxicity**

Ecological data not available for the product itself. The data provided are for the ingredients listed below:

Sodium Fluoride: 96 hrs. LC<sub>50</sub> fish: >100 mg/L

Ethanol: 96 hrs. LC<sub>50</sub> rainbow trout: >10,000 mg/L

**Persistence and degradability**

No information available

**Bioaccumulative Potential:** No data available

**Mobility in soil:**

No data available

**Other adverse effects:**

No information available

**SECTION 13: DISPOSAL CONSIDERATIONS**

Dispose in accordance with national and local regulations.

**SECTION 14: TRANSPORT INFORMATION**

Please refer to your state and local government regulations.

**SAFETY DATA SHEET**  
**KOLORZ CLEARSHIELD FLUORIDE VARNISH**

Page 6 of 6  
Issued: 11/10/14  
Revision No. 0  
395865

**SECTION 15: REGULATORY INFORMATION**

**U.S. FEDERAL REGULATIONS:**

**SARA TITLE III:**

**Hazard Category for Section 311/312:** Acute Health, Fire Hazard.

**Section 313 Toxic Chemicals:** This product contains the following chemicals subject to Annual Release Reporting Requirements under SARA Title III, Section 313 (40 CFR 372): None at or above reportable quantity.

**Section 302 extremely hazardous Substances (TPQ):** None at or above reportable quantity

**EPA Toxic Substances Control Act (TSCA) Status:** This product is a medical device and not subject to chemical notification requirements.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

**SECTION 16: OTHER INFORMATION**

Risk phrases used in Section 2:

H225: Highly flammable liquid and vapor.

H302: Harmful if swallowed.

H319: Causes serious eye irritation.

Date of preparation of SDS: November 10, 2014

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

# SAFETY DATA SHEET

## KOLORZ CLEARSHIELD FLUORIDE VARNISH

Page 1 of 6  
Rev. Date: 01/31/2018  
Revision No. 0  
395865

### SECTION 1: IDENTIFICATION

#### **Product Identifier**

Product Name: KOLORZ CLEARSHIELD FLUORIDE VARNISH

#### **Other Means of Identification**

Product Item Code(s): 799501, 799502, 799503, 799504, 799506, 799507, 799512, 799513, 799516, 799517

#### **Recommended use of the chemical and restriction on use**

Recommended Use: Dental Product

Restrictions on Use: For use by dental professional only

#### **Name, address, telephone number of the supplier:**

Company Address: DMG America LLC  
242 South Dean Street  
Englewood, NJ 07631  
USA

Information Telephone Number: 201-894-5500

**Emergency Telephone Number:** 800-535-5053 (Infotrac)

### SECTION 2: HAZARD(S) IDENTIFICATION

#### **GHS Classification**

- Flammable liquid category 2.
- Acute Toxicity category 3.
- Eye Irritant category 2.
- Skin Sensitizer category 1.

**Signal Word:** Danger

#### **Hazard Statements:**

H225: Highly flammable liquid and vapor.

H302: Harmful if swallowed.

H319: Causes serious eye irritation.

#### **Pictograms:**



Flammable Harmful  
Irritant

#### **Precautionary Statements:**

P210: Keep away from heat. Sparks, open flames, and hot surfaces. No smoking.

P102: Keep out of the reach of children.

P264: Wash hands thoroughly after handling.

**SAFETY DATA SHEET**  
**KOLORZ CLEARSHIELD FLUORIDE VARNISH**

Page 2 of 6  
Rev. Date: 01/31/2018  
Revision No. 0  
395865

**Hazards not otherwise classified:** None

**Unknown Acute Toxicity:** No ingredient with unknown toxicity.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

| Ingredients     | CAS No./ EINECS No.  | Percent<br>(By Weight) |
|-----------------|----------------------|------------------------|
| Ethanol         | 64-17-5/200-578-6    | 20-35%                 |
| Sodium Fluoride | 7681-49-4/231-667-8  | 4-6%                   |
| Synthetic Resin | 68990-02-3/273-574-5 | 50-70%                 |

**SECTION 4: FIRST AID MEASURES**

**Eye Contact:** Flush eyes with large quantities of water for at least 15 minutes, holding the eyelids apart. Get medical attention if irritation develops or persists.

**Skin Contact:** Wash skin with plenty of soap and water. Get medical attention if irritation develops.

**Ingestion:** Do not induce vomiting. If conscious, rinse out mouth with water and give copious amounts of milk, or water if milk is not available. Never give anything by mouth to an unconscious person. If symptoms persist, get immediate medical attention.

**Inhalation:** Move victim to fresh air. If breathing is difficult have qualified personnel administer oxygen. Get medical attention if irritation persists.

**Most Important symptoms/effects, acute and delayed:**

May cause eye and skin irritation. May cause skin sensitization. May be harmful if swallowed.

**Indication of immediate medical attention and special treatment needed:**

No information available.

**SECTION 5: FIRE FIGHTING MEASURES**

**Extinguishing Media:** Use media appropriate for surrounding fire.

**Specific hazards arising from the chemical:** Highly flammable liquid and vapor.

**Special Protective equipment and precautions for firefighters:** Firefighters should wear full emergency equipment and positive pressure self-contained breathing apparatus.

**Unusual Fire/Explosion Hazards:** None under normal conditions of use.

**Known or Anticipated Hazardous Products of Combustion:** Carbon monoxide, carbon dioxide and toxic fumes.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures:** Avoid contact with eyes, skin and clothing. Use appropriate protective equipment as described in Section 8.

**Environmental Precautions:** Prevent spill from entering waterways.

# SAFETY DATA SHEET

## KOLORZ CLEARSHIELD FLUORIDE VARNISH

Page 3 of 6  
Rev. Date: 01/31/2018  
Revision No. 0  
395865

**Methods and materials for containment and cleaning up:** Wipe up or collect using an inert absorbent material and place in appropriate containers for disposal. Rinse spill area with water. Prevent spill from entering sewers and water courses. Report releases as required by local, state and federal authorities.

### SECTION 7: 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 with soap and water after handling. Keep containers tightly closed when not in use.

Do not reuse containers. Empty containers retain product residues that can be hazardous. Follow all safety precautions when handling empty containers.

**Conditions for safe storage including any incompatibilities:** Store in a cool, dry, well-ventilated area. Do not store above 25°C (77°F). Keep out of direct sunlight. Keep away from heat and ignition sources. Keep out of reach of children.

### SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

**Exposure Control Parameters:** The parameters are not provided for the product itself. They are provided for the ingredients listed below:

**Occupational Exposure Limits:**

|                               |                                                                  |
|-------------------------------|------------------------------------------------------------------|
| Sodium Fluoride (as Fluoride) | 2.5mg/m <sup>3</sup> TWA ACGIH<br>2.5mg/ m <sup>3</sup> TWA OSHA |
| Ethanol                       | 1000 ppm STEL ACGIH<br>1900 mg/m <sup>3</sup> TWA OSHA           |

**Appropriate Engineering Controls:** No special ventilation normally required. For bulk handling, use ventilation that is adequate to maintain exposure levels below the occupational exposure limits.

**Individual Protection Measures:**

**Personal Protective Equipment**

**Eye Protection:** Safety glasses recommended.

**Skin Protection:** Wear impervious gloves.

**Respiratory Protection:** None should be needed for normal use. If the exposure limits are exceeded an approved respirator with particulate cartridges or supplied air respirator appropriate for the form and concentration of the contaminants should be used. Selection and use of respiratory equipment must be in accordance with applicable regulations and good industrial hygiene practice.

**Other Protective Clothing or Equipment:** None needed for normal use. Impervious clothing as needed to avoid contamination of personal clothing for bulk handling.

**SAFETY DATA SHEET**  
**KOLORZ CLEARSHIELD FLUORIDE VARNISH**

Page 4 of 6  
Rev. Date: 01/31/2018  
Revision No. 0  
395865

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance:** Off white to yellow colored liquid.

**Odor:** Characteristic

**Odor Threshold:** Not available

**pH:** Not available

**Melting Point:** Not applicable

**Freezing Point:** Not available

**Boiling Point/Range:** Not available

**Flashpoint:** Not available

**Evaporation Rate:** Not available

**Flammability (solid, gas):** Not available

**Upper/lower flammability or explosive limits:**

LEL: Not available

UEL: Not available

**Vapor Pressure:** Not available

**Vapor Density:** Not available

**Relative Density:** Not available

**Solubility in water:** Slightly soluble

**Partition coefficient**

**(n-octanol/water):** Not available

**Autoignition Temperature:** Not available

**Decomposition Temperature:** Not available

**Viscosity:** Not available

**SECTION 10: STABILITY AND REACTIVITY**

**Reactivity:** None known

**Chemical Stability:** Stable

**Possibility of Hazardous Reactions:** None under normal conditions of use

**Conditions to Avoid:** Keep away from ignition sources.

**Incompatible Materials:** Avoid oxidizing agents and strong acids.

**Hazardous Decomposition Products:** May produce carbon monoxide, carbon dioxide and toxic fumes.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**Information on Toxicological Effects**

Toxicological data not available for the product itself. The data provided are for the ingredients listed below.

Sodium Fluoride: Oral rat LD<sub>50</sub>: 52 mg/kg

Ethanol: Oral rat LD<sub>50</sub>: 7060 mg/kg

# SAFETY DATA SHEET

## KOLORZ CLEARSHIELD FLUORIDE VARNISH

Page 5 of 6  
Rev. Date: 01/31/2018  
Revision No. 0  
395865

### Likely Routes of Exposure and the Symptoms related to the Physical, Chemical and Toxicological

#### Characteristics:

**Eyes:** Direct contact causes eye irritation.

**Skin:** Prolonged skin contact may cause irritation.

**Inhalation:** No adverse effects expected, under normal conditions of use.

**Ingestion:** May cause salivation, nausea, vomiting, abdominal pain, headaches, or dizziness.

**Chronic Health Effects:** Not expected under normal conditions of use. Repeated overexposure to Sodium Fluoride may cause fluorosis.

**Mutagenicity:** No data available.

**Carcinogenicity:** Not known to be as carcinogen or potential carcinogen by NTP (National Toxicological Program), IARC (International Agency for the Research of Cancer) or OSHA (Occupational Safety and Health Administration).

**Medical Conditions Aggravated by Exposure:** Individuals with pre-existing skin disease may be at increased risk from exposure.

### SECTION 12: ECOLOGICAL INFORMATION

#### Eco toxicity

Ecological data not available for the product itself. The data provided are for the ingredients listed below:

Sodium Fluoride: 96 hrs. LC<sub>50</sub> fish: >100 mg/L

Ethanol: 96 hrs. LC<sub>50</sub> rainbow trout: >10,000 mg/L

#### Persistence and degradability

No information available

**Bioaccumulative Potential:** No data available

#### Mobility in soil:

No data available

#### Other adverse effects:

No information available

### SECTION 13: DISPOSAL CONSIDERATIONS

Dispose in accordance with national and local regulations.

### SECTION 14: TRANSPORT INFORMATION

Please refer to your state and local government regulations.

**SAFETY DATA SHEET**  
**KOLORZ CLEARSHIELD FLUORIDE VARNISH**

Page 6 of 6  
Rev. Date: 01/31/2018  
Revision No. 0  
395865

**SECTION 15: REGULATORY INFORMATION**

**U.S. FEDERAL REGULATIONS:**

**SARA TITLE III:**

**Hazard Category for Section 311/312:** Acute Health, Fire Hazard.

**Section 313 Toxic Chemicals:** This product contains the following chemicals subject to Annual Release Reporting Requirements under SARA Title III, Section 313 (40 CFR 372): None at or above reportable quantity.

**Section 302 extremely hazardous Substances (TPQ):** None at or above reportable quantity

**EPA Toxic Substances Control Act (TSCA) Status:** This product is a medical device and not subject to chemical notification requirements.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

**SECTION 16: OTHER INFORMATION**

Risk phrases used in Section 2:

H225: Highly flammable liquid and vapor.

H302: Harmful if swallowed.

H319: Causes serious eye irritation.

Legal disclaimer:

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

---

Date of preparation of SDS: November 10, 2014