

Date of issue: 22.10.2025 Revision: 22.10.2025

1 Identification

· Other means of identification

· Trade name: EnamelastTM

· Article number:

SDS 352-001.18R01, 71122, 1009274, 1001036, 1005983, 1006179, 1006557, 1005220, 1006161, 4343, 4343-CA, 4343-CN, 4344, 4344-P3, 6910, 15227, 4362, 4363, 4362-CA, 4362-CN, 4363-P3, 6911, 4819, 4822, 6912, 4352, 4352-CA, 4352-CN, 4353, 4353-P3, 5187, 6913, 5187-CA, 5187-CN, 5188, 12280, 13454, 15228, 4518, 4518-CA, 4518-CN, 4518-JP, 4518-P3, 4528, 4528-CA, 4528-CN, 4528-P3, 6909, 4518-1, 4521, 4521-JP, 4521-P3, 4523, 4523-CA, 4523-CN, 4523-P3, S4519, 6895, 6897, 6907, 6896, 6898, 6906

- Relevant identified uses of the substance or mixture and uses advised against Professional Dental Fluoride Varnish
- · Application of the substance / the mixture Professional Dental Fluoride Varnish
- Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Ultradent Products, Inc.

505 W. Ultradent Drive (10200 S)

South Jordan, UT 84095-3942

USA

on line order support@ultradent.com

(800) 552-5512

Ultradent Australia Pty Ltd. Level 22/2 Market Street Sydney NSW 2000 Australia

Email: info.anz@ultradent.com Toll Free: 1-800-290929

- · Further information obtainable from: Customer Service
- · Emergency telephone number:

CHEMTREC (NORTH AMERICA): +1 (800) 424-9300 (INTERNATIONAL): +(703) 527-3887

2 Hazard(s) Identification

· Classification of the substance or mixture



Flammable liquids – Category 3 H226 Flammable liquid and vapour.



health hazard

Carcinogenicity – Category 1A H350 May cause cancer.



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Acute toxicity - oral - Category 4 H302 Harmful if swallowed.

Acute toxicity - inhalation - Category 4 H332 Harmful if inhaled.

Skin corrosion/irritation - Category 2 H315 Causes skin irritation.

Eye damage/irritation - Category 2A H319 Causes serious eye irritation.

Skin sensitisation - Category 1 H317 May cause an allergic skin reaction.

· Label elements

- · GHS label elements Void
- · Hazard pictograms GHS02, GHS07, GHS08
- · Signal word Danger

· Hazard-determining components of labelling:

Hydrogenated Rosin (≥1-<30 %)

Resin acids and Rosin acids, hydrogenated, esters with glycerol (≥0-≤10 %)

Vanilla Flavor (≥0-<5 %)

Sodium Fluoride (>1-<10 %)

Bubble Gum Flavor (≥0-<5 %)

Raspberry Dare Flavor (≥0-<5 %)

· Hazard statements

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H332 Harmful if inhaled.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H350 May cause cancer.

· Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P241 Use explosion-proof electrical/ventilating/lighting equipment.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin

with water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

3 Composition and Information on Ingredients

- · Chemical characterisation: Mixtures
- · **Description:** Mixture of substances listed below with nonhazardous additions.

· Dangerous components:		
64-17-5	Ethyl Alcohol	≥18-<40%
	♦ Flammable liquids – Category 2, H225; ♦ Eye damage/irritation – Category 2A, H319	
	Hydrogenated Rosin	≥1-<30%
	💠 Skin sensitisation – Category 1, H317	
		Contd. on page 3

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	Resin acids and Rosin acids, hydrogenated, esters with glycerol	Contd. of pag <i>≥0-≤10</i> 5
	Acute toxicity - oral − Category 4, H302	≥0- <u>≥</u> 10,
7681 10 1	Sodium Fluoride	>1-<10
7001-49-4	Acute toxicity - oral – Category 3, H301; Acute toxicity - dermal – Category 2, H310; Skin corrosion/irritation – Category 2, H315; Eye damage/irritation – Category 2A, H319	>110
36653-82-4	1-Hexadecanol	>1-<10
	🕩 Eye damage/irritation – Category 2A, H319	
	Bubble Gum Flavor	≥0-<5%
	♦ Flammable liquids — Category 2, H225; ♦ Skin corrosion/irritation — Category 2, H315; Skin sensitisation — Category 1, H317; Specific target organ toxicity (single exposure) — Category 3, H335	
	Vanilla Flavor	≥0-<59
	🚸 Flammable liquids – Category 2, H225; \& Carcinogenicity – Category 1A, H350	
5949-29-1	Citric Acid Monohydrate	>0.25-<
	♦ Skin corrosion/irritation – Category 2, H315; Eye damage/irritation – Category 2A, H319; Specific target organ toxicity (single exposure) – Category 3, H335	
	Amaretto Flavor	≥0-<5%
	♦ Skin corrosion/irritation – Category 2, H315	
	Raspberry Dare Flavor	≥0-<59
	 ♦ Flammable liquids – Category 3, H226; ♦ Aspiration hazard – Category 1, H304; ♦ Skin corrosion/irritation – Category 2, H315; Eye damage/irritation – Category 2A, H319; Skin sensitisation – Category 1, H317 	
89-78-1	Menthol	≥0-<5%
0, , 0	♦ Skin corrosion/irritation – Category 2, H315; Eye damage/irritation – Category 2A, H319	
	Strawberry Flavor	≥0-<5%
	Flammable liquids — Category 3, H226; Skin corrosion/irritation — Category 2, H315; Eye damage/irritation — Category 2A, H319	
	Trade Secret	>1-<59
	♦ Skin corrosion/irritation – Category 1A, H314	
89-80-5	Trans-p-Menthan-3-One	<1%
	♦ Skin corrosion/irritation – Category 2, H315; Skin sensitisation – Category 1, H317; Flammable liquids – Category 4, H227	
491-07-6	D,L-Isomenthone	<1%
	♦ Skin corrosion/irritation – Category 2, H315; Skin sensitisation – Category 1, H317; Flammable liquids – Category 4, H227	
8008-57-9	Orange Oil	<1%
	Flammable liquids — Category 3, H226; Skin corrosion/irritation — Category 2, H315; Skin sensitisation — Category 1, H304; H317	
5989-27-5	(R)-1-Methyl-4-(1-Methylethenyl) Cyclohexane	<1%
	Flammable liquids – Category 3, H226; Skin sensitisation – Category 1, H304; Skin corrosion/irritation – Category 2, H315; Skin sensitisation – Category 1B, H317	

• Additional information: For the wording of the listed hazard phrases refer to section 16.

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4 First Aid Measures

· General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation:

This product is a viscous gel, therefore chance of inhalation is extremely low.

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· After swallowing:

If swallowed in large quantities seek medical attention.

Call for a doctor immediately.

- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire Fighting Measures

· Suitable extinguishing agents:

CO₂ powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- For safety reasons unsuitable extinguishing agents: Water with full jet
- · Special hazards arising from the substance or mixture No further relevant information available.
- · Protective equipment: Mouth respiratory protective device.

6 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 material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and Storage

- · Handling:
- · Precautions for safe handling:

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

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· Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:

See product labelling.

Keep container tightly sealed.

· Specific end use(s) Professional Dental Fluoride Varnish

8 Exposure controls and personal protection

- · Appropriate engineering controls No further data; see section 7.
- · Ingredients with limit values that require monitoring at the workplace:

64-17-5 Ethyl Alcohol

WES Long-term value: 1880 mg/m³, 1000 ppm

- · Additional information: The lists valid during the making were used as basis.
- · Personal protective equipment:
- General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes and skin.

Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Tightly sealed goggles

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· Body protection: Protective work clothing

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9 Physical and Chemical Properties

· General Information

· Appearance:

· Form: Viscous Liquid

Colour: White to somewhat yellow
Odour: Flavor Dependent
Odour threshold: Not determined.

· pH-value: Not applicable (non-aqueous)

· Change in condition

· Melting point/freezing point: Undetermined. · Initial boiling point and boiling range: Undetermined.

Flash point: 23 °C
 Flammability Flammable.
 Decomposition temperature: Not determined.

• Ignition temperature: Product is not selfigniting.

Explosive properties: Product is not explosive. However, formation of explosive air/vapour

mixtures are possible.

· Explosion limits:

Lower: Not determined.
 Upper: Not determined.
 Vapour pressure: Not determined.
 Density at 20 °C: 0.96-1.03 g/cm³
 Relative density Not determined.
 Vapour density Not determined.
 Evaporation rate Not determined.

· Solubility in / Miscibility with

water: Not miscible or difficult to mix.

· Partition coefficient: n-octanol/water: Not determined.

· Viscosity:

Dynamic: Not determined.Kinematic: Not determined.

· Other information

• Particle characteristics Not applicable.

· Physical state Fluid

10 Stability and Reactivity

· Reactivity No further relevant information available.

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions: No dangerous reactions known.
- · Conditions to avoid: No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

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11 Toxicological Information

- · Information on toxicological effects
- · Acute toxicity

Harmful if swallowed.

Harmful if inhaled.

ATE (Acu	te Toxicity Estimat	es)
Oral	LD50	989-1,040 mg/kg
Dermal	LD50	3,500 mg/kg
64-17-5 E	thyl Alcohol	
Oral	LD50	5,600 mg/kg (guinea pig)
		3,400 mg/kg (mouse)
		7,060 mg/kg (rat)
	LC50 Fish	>10,000 mg/l (Fish)
Inhalative	LC50/4 h	39 mg/l (mouse)
		20,000 mg/l (rat)
65997-06-	0 Hydrogenated Ro	osin
Oral	LD50	>2,500 mg/kg (guinea pig)
		>3,000 mg/kg (mouse)
		>4,000 mg/kg (rat)
Dermal	LD50	>2,500 mg/kg (rabbit)
Resin acid	s and Rosin acids,	hydrogenated, esters with glycerol
Oral	LD50	2,000 mg/kg (rat)
7681-49-4	Sodium Fluoride	
Oral	LD50	52 mg/kg (mouse)
	LC50 Fish (static)	17 mg/l (Fish)
Dermal	LD50	175 mg/kg (rat)
36653-82-	4 1-Hexadecanol	
Oral	LD50	3,200 mg/kg (mouse)
		5,000 mg/kg (rat)
Dermal	LD50	<10,000 mg/kg (guinea pig)
		>2,600 mg/kg (rabbit)
5949-29-1	Citric Acid Monoh	ydrate
Oral	LD50	5,790 mg/kg (mouse)
5989-27-5	(R)-1-Methyl-4-(1-	-Methylethenyl) Cyclohexane
Oral	LD50	4,400 mg/kg (rat)

- · Primary irritant effect:
- · Skin corrosion/irritation Causes skin irritation.
- · Serious eye damage/irritation Causes serious eye irritation.
- · Respiratory or skin sensitisation May cause an allergic skin reaction.
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity May cause cancer.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- · STOT-single exposure Based on available data, the classification criteria are not met.

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- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.

12 Ecological Information

· Toxicity

· Aquatic toxicity:					
64-17-5 Ethyl Alcohol					
Algae Toxicity	1,000 mg/l (Algae)				
7681-49-4 Sodium Fli	7681-49-4 Sodium Fluoride				
EC50	272 mg/kg (Algae)				
	98 mg/kg (daphnia)				
Algae Toxicity (static)	7 mg/l (Algae)				
36653-82-4 1-Hexadecanol					
EC50	676 mg/kg (Algae)				

- · Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation

Dispose of contents/container in accordance with international, federal, state, and local regulations.

- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.

14 Transport information					
· UN-Number · ADG, IMDG, IATA	UN1986				
· UN proper shipping name					
·ADG	1986 ALCOHOLS, FLAMMABLE, TOXIC, N.O.S. (Ethyl Alcohol, SODIUM FLUORIDE)				
· IMDG. IATA	ALCOHOLS, FLAMMABLE, TOXIC, N.O.S. (Ethyl Alcohol.				

SODIUM FLUORIDE)

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(Contd. of page 8) · Transport hazard class(es) \cdot ADG 3 Flammable liquids. · Class ·Label 3+6.1 \cdot *IMDG* · Class 3 Flammable liquids. ·Label 3/6.1 \cdot IATA 3 Flammable liquids. · Class ·Label 3 (6.1) · Packing group · ADG, IMDG, IATA IINot applicable. · Environmental hazards: · Special precautions for user Warning: Flammable liquids. · Hazard identification number (Kemler code): 63 F-E,S-D· EMS Number: · Stowage Category · Stowage Code SW2 Clear of living quarters. · Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable. · Transport/Additional information: \cdot ADG IL· Limited quantities (LQ) Code: E2 · Excepted quantities (EQ) Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml · Transport category D/E· Tunnel restriction code \cdot IMDG · Limited quantities (LQ) ILCode: E2 · Excepted quantities (EQ) Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml (Contd. on page 10)

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· UN "Model Regulation":

UN 1986 ALCOHOLS, FLAMMABLE, TOXIC, N.O.S. (ETHYL ALCOHOL, SODIUM FLUORIDE), 3 (6.1), II

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture

NIOSH-Ca (National Institute for Occupational Safety and Health)				
None of the ingredients is listed.				
· Australian Inventory of Industrial Chemicals				
64-17-5	64-17-5 Ethyl Alcohol			
65997-06-0	Hydrogenated Rosin			
	Resin acids and Rosin acids, hydrogenated, esters with glycerol			
7681-49-4	Sodium Fluoride			
8050-15-5	Hydrogenated Rosin			
36653-82-4	1-Hexadecanol			
5949-29-1	Citric Acid Monohydrate			
89-78-1	Menthol			
	Trade Secret			
56038-13-2	Sucralose			
89-80-5	Trans-p-Menthan-3-One			
491-07-6	D,L-Isomenthone			
121-32-4	3-ethoxy-4-hydroxybenzaldehyde			
121-33-5	Vanillin			
8008-57-9	Orange Oil			
57-55-6	Propylene Glycol			
89-79-2	Isopulegol			
494-90-6	4,5,6,7-Tetrahydro-3,6-Dimethylbenzofuran			
2623-23-6	l-Menthyl Acetate (1Alpha,2Beta,5Alpha)			
5989-27-5	(R)-1-Methyl-4-(1-Methylethenyl) Cyclohexane			
852379-28-3	N-(4-CyanoMethylPhenyl)-2-Isopropyl-5-Methyl HexaneCarboxamide			
9005-65-6	Polysorbate 80 (Tween 80)			
513-86-0	Acetoin			

Standard for the Uniform Scheduling of Medicines and Poisons

None of the ingredients is listed.

87-99-0 *Xylitol*

· Australia: Priority Existing Chemicals

5989-27-5 (R)-1-Methyl-4-(1-Methylethenyl) Cyclohexane

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category P5c FLAMMABLE LIQUIDS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t

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· National regulations:

· Information about limitation of use:

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

· Chemical safety assessment:

Device is biocompatible when used as directed by dental professionals per ISO 10993-1

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases from Section 3

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H227 Combustible liquid.

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H310 Fatal in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H350 May cause cancer.

- · **Department issuing SDS:** Environmental, Health, and Safety
- · Contact: Customer Service
- · Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

Flammable liquids - Category 2: Flammable liquids - Category 2

Flammable liquids – Category 3: Flammable liquids – Category 3

Flammable liquids – Category 4: Flammable liquids – Category 4 Acute toxicity - oral – Category 3: Acute toxicity – Category 3

Acute toxicity - oral - Category 4: Acute toxicity - Category 4

Acute toxicity - dermal - Category 2: Acute toxicity - Category 2

Skin corrosion/irritation - Category 1A: Skin corrosion/irritation - Category 1A

Skin corrosion/irritation – Category 2: Skin corrosion/irritation – Category 2

Eye damage/irritation - Category 2A: Serious eye damage/eye irritation - Category 2A

Skin sensitisation – Category 1: Skin sensitisation – Category 1

Skin sensitisation – Category 1B: Skin sensitisation – Category 1B

Carcinogenicity - Category 1A: Carcinogenicity - Category 1A

Specific target organ toxicity (single exposure) – Category 3: Specific target organ toxicity (single exposure) – Category 3

Aspiration hazard - Category 1: Aspiration hazard - Category 1

* Data compared to the previous version altered.