

Printing date 21.05.2024 Revision: 14.05.2024

1 Identification

- · Product identifier
- · Trade name: EnamelastTM
- · Article number:

SDS 352-001.16R01, 1001036, 1005983, 1006179, 1006557, 1009274, 71122, 12280, 13454, 5784, 5785, 4518, 4363-P3, 4947, 4518-CN, 4518-JP, 4518-P3, 4528, 4362-CN, 4363, 4528-CN, 4528-P3, 5329, 4819, 4822, 4362, 4343, 12550, 13784, 4343-CN, 5787, 4344, 2484, 2485, 2486, 4344-P3, 5787, 5187, 3380, 4352, 4352-CN, 5187-CN, 5154, 5782, 5188, 4353, 4353-P3

- · 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

onlineordersupport@ultradent.com

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) : (800) 424-9300 (INTERNATIONAL) : +(703) 527-3887

2 Hazard(s) Identification

· Classification of the substance or mixture



Flam. Liq. 3 H226 Flammable liquid and vapour.



Acute Tox. 4

Acute Tox. 4

H302 Harmful if swallowed.

H332 Harmful if inhaled.

Skin Irrit. 2

H315 Causes skin irritation.

Serious eye damage/irritation – Category 2A

H319 Causes serious eye irritation.

Skin Sens. 1

H317 May cause an allergic skin reaction.

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- · Label elements
- · GHS label elements Void
- · Hazard pictograms GHS02, GHS07
- · Signal word Warning

· Hazard-determining components of labelling:

Hydrogenated Rosin Sodium Fluoride Bubble Gum Flavor

Isopulegol

· 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.

· 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.

P403+P235 Store in a well-ventilated place. Keep cool.

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.

64-17-5	Ethyl Alcohol	>20-<40
	♦ Flam. Liq. 2, H225; ♦ Serious eye damage/irritation – Category 2A, H319	
65997-06-0	Hydrogenated Rosin	10-<30%
	♦ Skin Sens. 1, H317	
7681-49-4	Sodium Fluoride	>1-<10%
	Acute Tox. 3, H301; Acute Tox. 2, H310; Skin Irrit. 2, H315; Serious eye damage/irritation – Category 2A, H319	
36653-82-4	1-Hexadecanol	>1-<10%
	♦ Serious eye damage/irritation – Category 2A, H319	
	Bubble Gum Flavor	>1-<10%
	♦ Flam. Liq. 2, H225; ♦ Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	
5949-29-1	Citric Acid Monohydrate	>1-<10%
	♦ Skin Irrit. 2, H315; Serious eye damage/irritation — Category 2A, H319; STOT SE 3, H335	

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	Amaretto Flavor	Contd. of page $ $ $>1-<10%$
	♦ Skin Irrit. 2, H315	
89-78-1	Menthol	>1-<5%
	♦ Skin Irrit. 2, H315; Serious eye damage/irritation — Category 2A, H319	
	Strawberry Flavor	>1-<10%
	Flam. Liq. 3, H226; Skin Irrit. 2, H315; Serious eye damage/irritation – Category 2A, H319	
	Trade Secret	>1-<5%
	💠 Skin Corr. 1A, H314	
89-80-5	Trans-p-Menthan-3-One	<1%
	♦ Skin Irrit. 2, H315; Skin Sens. 1, H317; Flam. Liq. 4, H227	
491-07-6	D,L-Isomenthone	<1%
	♦ Skin Irrit. 2, H315; Skin Sens. 1, H317; Flam. Liq. 4, H227	
8008-57-9	Orange Oil	<1%
	♦ Flam. Liq. 3, H226; ♦ Asp. Tox. 1, H304; ♦ Skin Irrit. 2, H315; Skin Sens. 1, H317	
89-79-2	Isopulegol	<1%
	Acute Tox. 3, H301; � Skin Irrit. 2, H315; Serious eye damage/irritation – Category 2A, H319; Flam. Liq. 4, H227	
5989-27-5	(R)-1-Methyl-4-(1-Methylethenyl) Cyclohexane	<1%
	♦ Flam. Liq. 3, H226; ♦ Asp. Tox. 1, H304; ♦ Skin Irrit. 2, H315; Skin Sens. 1B, H317	

[·] Additional information: For the wording of the listed hazard phrases refer to section 16.

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

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- · 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 item 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.

Prevent formation of aerosols.

· Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- 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

- · Additional information about design of technical facilities: No further data; see item 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.

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.

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· 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

· Body protection: Protective work clothing

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 (solid, gas): Flammable.
 Decomposition temperature: Not determined.

· Auto-ignition temperature: Product is not selfigniting.

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

mixtures are possible.

· Explosion limits:

Lower:
Vapour pressure:
Density at 20 °C:
Relative density
Vapour density
Vapour density
Not determined.

· Solubility in / Miscibility with

• water: Not miscible or difficult to mix.

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

· Viscosity:

Dynamic: Not determined.Kinematic: Not determined.

• *Other information No further relevant information available.*

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.

11 Toxicological Information

- · Information on toxicological effects
- · Acute toxicity

Harmful if swallowed.

Harmful if inhaled.

LD/LC50	values relevant for	classification:
ATE (Acu	te Toxicity Estimat	es)
Oral	LD50	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)
7681-49-4	Sodium Fluoride	
Oral	LD50	52 mg/kg (mouse)
	LC50 Fish (static)	
Dermal	LD50	175 mg/kg (rat)
36653-82-	4 1-Hexadecanol	
Oral	LD50	3,200 mg/kg (mouse)
		5,000 mg/kg (rat)
		(Contd. on pa

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Dermal	LD50	<10,000 mg/kg (Guinea pig)	
		>2,600 mg/kg (rabbit)	
5949-29-1	5949-29-1 Citric Acid Monohydrate		
Oral	LD50	5,790 mg/kg (mouse)	
5989-27-5	5989-27-5 (R)-1-Methyl-4-(1-Methylethenyl) Cyclohexane		
Oral	LD50	4,400 mg/kg (rat)	

- · 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 Based on available data, the classification criteria are not met.
- · 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.
- · 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

1000000			
· Aquatic 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)		
	272 mg/kg (Algae) 98 mg/kg (daphnia)		
Algae Toxicity (static)	7 mg/l (Algae)		
36653-82-4 1-Hexade	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.

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

UN-Number ADG, IMDG, IATA	UN1986
	UN1980
UN proper shipping name	1007 ALCOHOLS SLANMARIE TOVIC NOS (Ed.
ADG	1986 ALCOHOLS, FLAMMABLE, TOXIC, N.O.S. (Eth. Alcohol, SODIUM FLUORIDE)
IMDG, IATA	ALCOHOLS, FLAMMABLE, TOXIC, N.O.S. (Ethyl Alcoho
- ,	SODIUM FLUORIDE)
Transport hazard class(es)	
ADG	
(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	
Class	3 Flammable liquids.
Label	3+6.1
IMDG	
3	
Class	3 Flammable liquids.
Label	3/6.1
IATA	
Class	3 Flammable liquids.
Label	3 (6.1)
Packing group	
ADG, IMDG, IATA	II
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Flammable liquids.
Hazard identification number (Kemler code): EMS Number:	63 F-E,S-D
Stowage Category	В В
Stowage Code	SW2 Clear of living quarters.
Transport in bulk according to Annex II of Marp	
and the IBC Code	Not applicable.

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· Transport/Additional information:	
· ADG	
· Limited quantities (LQ)	IL
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
· Transport category	2
· Tunnel restriction code	D/E
· IMDG	
· Limited quantities (LQ)	IL
· Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 1986 ALCOHOLS, FLAMMABLE, TOXIC, N.O.
-	(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 ir	None of the ingredients is listed.		
· Australian Inventory of Industrial Chemicals			
64-17-5	Ethyl Alcohol		
65997-06-0	Hydrogenated Rosin		
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	Sorbitan Monooleate, Ethoxylated		
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513-86-0 Acetoin

87-99-0 *Xylitol*

· Standard for the Uniform Scheduling of Medicines and Poisons

None of the ingredients is listed.

· 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
- · 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.

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.

- · 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

Flam. Liq. 2: Flammable liquids – Category 2

Flam. Liq. 3: Flammable liquids – Category 3

Flam. Liq. 4: Flammable liquids – Category 4

Acute Tox. 3: Acute toxicity – Category 3 Acute Tox. 4: Acute toxicity – Category 4

Acute Tox. 4: Acute toxicity – Category 4
Acute Tox. 2: Acute toxicity – Category 2

Skin Corr. 1A: Skin corrosion/irritation – Category 1A

Skin Corr. 1A: Skin corrosion/irritation – Category Skin Irrit. 2: Skin corrosion/irritation – Category 2

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

Skin Sens. 1: Skin sensitisation – Category 1

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Skin Sens. 1B: Skin sensitisation – Category 1B STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 Asp. Tox. 1: Aspiration hazard – Category 1

* Data compared to the previous version altered.