GB2

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 09.09.2020

ODUCTS, INC.

Revision: 19.09.2018

1 Identification of the substance/mixture and of the company/undertaking · Product identifier • Trade name: Enamelast[™] · Article number: 71122, 1001036, 1005983, 1006179, 1006557, 1009274 · Index number: SDS 352-001.15 · 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 EC Responsible Person Ultradent Products GmbH Am Westhover Berg 30 51149 Cologne Germany *Email: infoDE@ultradent.com* Emergency Phone: +49(0)2203-35-92-0 · Further information obtainable from: Customer Service · Emergency telephone number: CHEMTREC (NORTH AMERICA) :(800) 424-9300 (INTERNATIONAL): +(703) 527-3887 **2** Hazards identification · Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 GHS02 flame Flam. Liq. 3 H226 Flammable liquid and vapour. GHS07 Acute Tox. 4 H302 Harmful if swallowed. Acute Tox. 4 H332 Harmful if inhaled. Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2 H319 Causes serious eye irritation. Skin Sens. 1 H317 May cause an allergic skin reaction. Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

· Label elements

· Labelling according to Regulation (EC) No 1272/2008

The Regulation EC 1272/2008 on classification, labeling and packaging of substances and mixtures (CLP) shall not apply to a medical device in the finished state used in direct physical contact with the human body according (Contd. on page 2)

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are provide	1907/2006, Art. 2 (6c), REACH. Therefore, all given data, classification, and information on this SD d solely on a voluntary basis. ograms GHS02, GHS07 I Warning
Hazard-det	ermining components of labelling:
Sodium Flu	
Amaretto F	
Bubble Gun	
	nthan-3-One
D,L - Isomen	thone
Orange Oil	
(R)-1-Methy	vl-4-(1-Methylethenyl) Cyclohexane
Hazard stat	
H226	Flammable liquid and vapour.
	2 Harmful if swallowed or if inhaled.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.
H412	Harmful to aquatic life with long lasting effects.
	ary statements
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103 P210	Read label before use.
	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. N smoking.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof [electrical/ventilating/lighting] equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280 P301+P312	Wear protective gloves/protective clothing/eye protection/face protection. IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
F 301 + F 312 P330	Rinse mouth.
	+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with wate
1 505 1 501	[or shower].
P304+P340	
	<i>Y</i> +P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,
	present and easy to do. Continue rinsing.
P362+P364	. ,
P333+P313	
P321	Specific treatment (see on this label).
P337+P313	
P370+P378	
P403+P235	
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
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• Additional information:

EUH032 Contact with acids liberates very toxic gas.

- Other hazards
- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

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

Dangerous components CAS: 64-17-5		> 25 ~500/	
CAS: 64-17-5 EINECS: 200-578-6	Ethyl Alcohol	>25-≤50%	
	Flam. Liq. 2, H225		
CAS: 8050-15-5	Hydrogenated Rosin	>2.5-≤10%	
EINECS: 232-476-2	Aquatic Chronic 3, H412		
CAS: 7681-49-4	Sodium Fluoride	5%	
EINECS: 231-667-8	♦ Acute Tox. 3, H301; Acute Tox. 2, H310; Skin Irrit. 2, H315; Eye Irrit. 2, H319		
	Bubble Gum Flavor	<5%	
	Flam. Liq. 2, H225; Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335		
CAS: 89-78-1	Menthol	<1%	
EINECS: 201-939-0	🚯 Skin Irrit. 2, H315; Eye Irrit. 2, H319		
	Strawberry Flavor	<2%	
	🚸 Flam. Liq. 3, H226; 🚸 Skin Irrit. 2, H315; Eye Irrit. 2, H319		
	Trade Secret	<i>≤</i> 2.5%	
	Skin Corr. 1A, H314		
CAS: 491-07-6	D,L-Isomenthone	<i>≤</i> 2.5%	
EINECS: 207-727-4	🚯 Skin Irrit. 2, H315; Skin Sens. 1, H317		
CAS: 89-80-5	Trans-p-Menthan-3-One	<i>≤</i> 2.5%	
EINECS: 201-941-1	() Skin Irrit. 2, H315; Skin Sens. 1, H317		
CAS: 8008-57-9	Orange Oil	<1%	
EC number: 307-891-8		-	
CAS: 5989-27-5	(R)-1-Methyl-4-(1-Methylethenyl) Cyclohexane	<i>≤</i> 2.5%	
EINECS: 227-813-5	♦ Flam. Liq. 3, H226; ♦ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ♦ Skin Irrit. 2, H315; Skin Sens. 1, H317		
	Amaretto Flavor	<i>≤</i> 2.5%	
	() Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Irrit. 2, H315		

4 First aid measures

• Description of 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.

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• 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 Firefighting measures

- · Extinguishing media
- Suitable extinguishing agents:
- CO_{2} 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.
- Advice for firefighters:
- · Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Mount respiratory protective device. Wear protective equipment. Keep unprotected persons away.
- Environmental precautions:
 Do not allow product to reach sewage system or any water course.
 Inform respective authorities in case of seepage into water course or sewage system.
 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.

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Protect against electrostatic charges.

· Conditions for safe storage, including any incompatibilities

- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Do not store together with acids.
- Further information about storage conditions: See product labelling. Keep container tightly sealed.
- · Specific end use(s) Professional Dental Fluoride Varnish

8 Exposure controls/personal protection

• Additional information about design of technical facilities: No further data; see item 7.

· Control parameters

• Ingredients with limit values that require monitoring at the workplace:

64-17-5 Ethyl Alcohol

WEL (Great Britain) Long-term value: 1920 mg/m³, 1000 ppm

• Additional information: The lists valid during the making were used as basis.

- · Exposure controls
- · 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.

• 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

9 Physical and chemical properties	
 Information on basic physical and chem General Information Appearance: 	ical properties
Form: Colour: · Odour: · Odour threshold:	Viscous Liquid White Flavor Dependent Not determined.
· pH-value:	Not applicable (non-aqueous)
• Change in condition Melting point/freezing point: Initial boiling point and boiling range	Undetermined. : Undetermined.
· Flash point:	23 °C
· Flammability (solid, gas):	Not applicable.
• 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: Upper:	Not determined. Not determined.
· Vapour pressure:	Not determined.
Density at 20 °C: Relative density Vapour density Evaporation rate	0.96-1.03 g/cm ³ Not determined. Not determined. Not determined.
 Solubility in / Miscibility with water: 	Not miscible or difficult to mix.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity: Dynamic: Kinematic:	Not determined. Not determined.
· Solvent content: Organic solvents: VOC (EC)	<30 % 32.3-36.75 %
Solids content: • Other information	<50.0 % No further relevant information available.

10 Stability and reactivity

• *Reactivity* No further relevant information available.

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- · Chemical stability
- 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 or if inhaled.

	values relevant for	classification:
ATE (Acut	te Toxicity Estimate	
Oral	LD50	989 mg/kg
Dermal	LD50	3,500 mg/kg
Inhalative	LC50/4 h	440 mg/l (mouse)
64-17-5 Et	hyl 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)
7681-49-4	Sodium Fluoride	
Oral	LD50	52 mg/kg (mouse)
	LC50 Fish (static)	17 mg/l (Fish)
Dermal	LD50	175 mg/kg (rat)
8050-15-5	Hydrogenated Ros	in
Oral	LD50	>5,000 mg/kg (Guinea pig)
		>5,000 mg/kg (rat)
5949-29-1	Citric Acid Monoh	ydrate
Oral	LD50	5,790 mg/kg (mouse)
5000 3 5 5	(R)_1_Methyl_4_(1_	
3989-27-3	(II)-1-MCilly1-4-(1-	Methylethenyl) Cyclohexane
Oral	LD50 ritant effect:	Methylethenyl) Cyclohexane 4,400 mg/kg (rat)

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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. (Contd. of page 7)

1	tic toxicity:	
64-1 ′	7-5 Ethyl Alcohol	
	Algae Toxicity	1,000 mg/l (Algae)
7681-49-4 Sodium Fluoride		
	EC50	272 mg/kg (Algae)
		98 mg/kg (daphnia)
	Algae Toxicity (stati	ic) 7 mg/l (Algae)
8050	-15-5 Hydrogenated	Rosin
Oral	EL50	27 mg/l (daphnia)
	LL50	>1,000 mg/l (Fish)
	72-hour EL50	>1,000 mg/l (Algae)
Mobi Ecota Rema Addia Gene Wate Do na Harn Resu PBT:	ility in soil No furthen oxical effects: ark: Harmful to fish tional ecological info eral notes: r hazard class 1 (Gen ot allow undiluted pr aful to aquatic organ. Its of PBT and vPvB Not applicable. Not applicable.	rman Regulation) (Self-assessment): slightly hazardous for water roduct or large quantities of it to reach ground water, water course or sewage system. isms P assessment
	11 60 11	further relevant information available.

· Recommendation

Do not allow product to reach sewage system.

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· Europ	ean waste catalogue
HP3	Flammable
HP4	Irritant - skin irritation and eye damage
HP6	Acute Toxicity
HP12	Release of an acute toxic gas
HP14	Ecotoxic
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Uncleaned packaging:
 Recommendation: Disposal must be made according to official regulations.

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

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1L
Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml
2
D/E
1L
Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml
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

- · Directive 2012/18/EU
- · 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
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- 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

H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
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.
H322 Harmful if inhaled.
H335 May cause respiratory irritation.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

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• Department issuing SDS: Regulatory Affairs	
• Contact: Customer Service	
· Abbreviations and acronyms:	
ADDR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the Internatio	nal
Carriage of Dangerous Goods by Road)	nui
IMDG: International Maritime Code for Dangerous Goods	
IATA: International Air Transport Association	
GHS: Globally Harmonised System of Classification and Labelling of Chemicals	
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)	
VOC: Volatile Organic Compounds (USA, EU)	
LC50: Lethal concentration, 50 percent	
LD50: Lethal dose, 50 percent	
PBT: Persistent, Bioaccumulative and Toxic	
vPvB: very Persistent and very Bioaccumulative	
Flam. Liq. 2: Flammable liquids – Category 2	
Flam. Liq. 3: Flammable liquids – Category 3	
Acute Tox. 3: Acute toxicity - oral – Category 3	
Acute Tox. 4: Acute toxicity - oral – Category 4	
Acute Tox. 2: Acute toxicity - dermal – Category 2	
Skin Corr. 1A: Skin corrosion/irritation – Category 1A	
Skin Irrit. 2: Skin corrosion/irritation – Category 2	
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2	
Skin Sens. 1: Skin sensitisation – Category 1	
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3	
Asp. Tox. 1: Aspiration hazard – Category 1	
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1	
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1	
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2	
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3	
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