

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Revision date: 3/15/2024 Version: 1.1

SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1. Product identifier Product form : Mixture Product name : Pad Lock and Pad Lock Thin with Fluoride 1.2. Relevant identified uses of the substance or mixture and uses advised against 1.2.1. Relevant identified uses Use of the substance/mixture : For Rx Only 1.2.2. Uses advised against No additional information available 1.3. Details of the supplier of the safety data sheet Manufacturer/Importer/Representative/User/Distributor: **U.S. Federal Register:** Reliance Orthodontic Products, Inc. According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 1540 W. Thorndale Ave / Rules and Regulations Itasca, IL 60143 USA FDA Registration: 1420089 T 630-773-4009, during normal business hours regulatory@relianceorthodontics.com www.RelianceOrthodontics.com Australian Sponsor: EC Representative: Emergo Australia, 201 Sussex St. Emergo Europe Darling Park, Tower II, Level 20 Westervoortsedijk 60 Sydney, NSW 2000 Australia 6827 AT Arnhem T+61 2 9006 1662 The Netherlands T +31 70 345 8570 Switzerland Representative: **U.K. Person Responsible:** MedEnvoy Global BV Emergo Consulting (UK) Limited c/o Cr360 - UL International Compass House, Vision Park Histon Leidschendam-Voorburg, Zug Branch Office Gotthardstrasse 28, 6302 Zug, Switzerland Cambridge CB24 9BZ T +41 41 462 01 42 England, United Kingdom T +44(0) 1223 772 671 1.4. Emergency telephone number

Emergency number

: CHEMTREC - 24-Hour Hazmat Emergency Communications Center Domestic: 1-800-424-9300 Outside the U.S.: 1-703-527-3887, collect calls accepted

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification	according to	Population (1070/0000	
Classification	according to	Regulation (EC) NO.	12/2/2000	

Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2	H319
Skin sensitisation, Category 1	H317
Specific target organ toxicity - Single exposure, Category 3,	H335
Respiratory tract irritation	
Full text of H- and EUH-statements: see section 16	

Adverse physicochemical, human health and environmental effects

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2.2. Label elements	
Labelling according to Regulation (EC)	No. 1272/2008 [CLP]
Hazard pictograms (CLP)	
Circa al ward (CLD)	GHS07
Signal word (CLP) Contains	: Warning
Hazard statements (CLP)	: BisGMA; Triethylene Glycol Dimethacrylate ; Glass Filler : H315 - Causes skin irritation.
	H317 - May cause an allergic skin reaction.
	H319 - Causes serious eye irritation.
	H335 - May cause respiratory irritation.
Precautionary statements (CLP)	: P261 - Avoid breathing dust, fume, vapours.
	P264 - Wash hands thoroughly after handling.
	P272 - Contaminated work clothing should not be allowed out of the workplace.
	P280 - Wear protective gloves, protective clothing, eye protection.
	P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
	P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove
	contact lenses, if present and easy to do. Continue rinsing.
	P312 - Call a POISON CENTER, doctor if you feel unwell.
	P321 - Specific treatment (see supplemental first aid instruction on this label).
	P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
	P337+P313 - If eye irritation persists: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse.
	P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
	P501 - Dispose of contents and container to hazardous or special waste collection point, in
	accordance with local, regional, national and/or international regulation, a licensed
	hazardous-waste disposal contractor or collection site except for empty clean containers
	which can be disposed of as non-hazardous waste.

2.3. Other hazards

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

Component	
Sodium Fluoride (7681-49-4)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Triethylene Glycol Dimethacrylate (109-16-0)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Titanium Dioxide (13463-67-7)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

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3.2. Mixtures			
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Glass Filler	CAS-No.: N/A	50 - 70	Eye Irrit. 2, H319 STOT SE 3, H335
BisGMA	CAS-No.: 1565-94-2 EC-No.: 216-367-7	10 - 30	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335
Triethylene Glycol Dimethacrylate	CAS-No.: 109-16-0 EC-No.: 203-652-6	5 - 10	Skin Sens. 1B, H317
Titanium Dioxide	CAS-No.: 13463-67-7 EC-No.: 236-675-5 EC Index-No.: 022-006-00-2	< 1	Carc. 2, H351
Sodium Fluoride substance with a Community workplace exposure limit	CAS-No.: 7681-49-4 EC-No.: 231-667-8 EC Index-No.: 009-004-00-7	< 1	Acute Tox. 3 (Oral), H301 Skin Irrit. 2, H315 Eye Irrit. 2, H319

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first ald measures	
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.
4.2. Most important symptoms and effects	s, both acute and delayed
Symptoms/effects after skin contact Symptoms/effects after eye contact	: Irritation. May cause an allergic skin reaction. : Eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures			
5.1. Extinguishing media			
Suitable extinguishing media	: Water spray. Dry powder. Carbon dioxide. Foam.		
5.2. Special hazards arising from the substance or mixture			
Hazardous decomposition products in case of fire	: Toxic fumes may be released.		
5.3. Advice for firefighters			
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.		

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SECTION 6: Accidental release measures		
6.1. Personal precautions, protective equip	ment and emergency procedures	
6.1.1. For non-emergency personnel		
Emergency procedures	: Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust, fume, vapours.	
6.1.2. For emergency responders		
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".	
6.2. Environmental precautions		
Avoid release to the environment.		
6.3. Methods and material for containment	and cleaning up	
Methods for cleaning up Other information	Mechanically recover the product.Dispose of materials or solid residues at an authorized site.	
6.4. Reference to other sections		

For further information refer to section 13.

SECTION 7: Handling and storage	ge
7.1. Precautions for safe handling	
Precautions for safe handling	: Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. Avoid breathing dust, fume, vapours.
Hygiene measures	: Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, inc	cluding any incompatibilities
Storage conditions	: Store in a well-ventilated place. Keep cool.
7.3 Specific and use(s)	

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

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8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection: Safety glasses

8.2.2.2. Skin protection

Skin and body protection: Wear suitable protective clothing

Hand protection: Protective gloves

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Colour	: Light yellow.
Appearance	: Paste.
Odour	: Acrylic.
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: Not applicable
Boiling point	: Not available
Flammability	: Non flammable.
Lower explosion limit	: Not applicable
Upper explosion limit	: Not applicable
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: Not available
рН	: Not available
pH solution	: Not available
Viscosity, kinematic	: Not applicable
Solubility	: Not available
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: Not available

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Relative density	: Not applicable
Relative vapour density at 20°C	: Not applicable
Particle size	: Not available

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008		
Acute toxicity (dermal)	Not classified Not classified Not classified	
Sodium Fluoride (7681-49-4)		
LD50 oral rat	223 mg/kg bodyweight (EPA OPPTS 870.1100: Acute Oral Toxicity, Rat, Male, Experimental value, Oral, 14 day(s))	
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: EPA OPPTS 870.1200 (Acute Dermal Toxicity)	
Triethylene Glycol Dimethacrylate (109-16-0)		
LD50 oral rat	10837 mg/kg Source: NLM,THOMSON	
LD50 dermal	> 2000 mg/kg bodyweight (US EPA, 14 day(s), Mouse, Male, Experimental value, Skin, 14 day(s))	
Titanium Dioxide (13463-67-7)		
LD50 oral rat	> 2000 mg/kg bodyweight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s))	
LC50 Inhalation - Rat	> 5.09 mg/l (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male, Experimental value, Inhalation (dust), 14 day(s))	

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LC50 Inhalation - Rat (Dust/Mist) > 6.82 mg/l Source: ECHA Skin corrosion/irritation : Causes skin irritation. Triethylene Glycol Dimethacrylate (109-16-0) PH PH 8.8 - 7.2 Titanium Dioxide (13463-67-7) PH PH 7 Source: ECHA Serious eye damage/irritation : Causes serious eye irritation. Triethylene Glycol Dimethacrylate (109-16-0) PH pH f Source: ECHA Respiratory or skin sensitisation : May cause an alergic skin reaction. Gern cell mutagenicity : Not classified Carcinogenicity : Not classified Titanium Dioxide (13463-67-7) ILRC group LRC group : Not classified Carcinogenicity : Not classified Carcinogenicity : Not classified STOT-single exposure : May cause respiratory irritation. BisGMA (1565-94-2) StOT-single exposure STOT-single exposure May cause respiratory irritation. STOT-single exposure May cause respiratory irritation. STOT-single exposure : Not classified SOT-single exposure : Not classified Sodium Fluoride (7681-49	Titanium Dioxide (13463-67-7)					
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Titanium Dioxide (13463-67-7) pH 7 Source: ECHA Serious eye damage/irritation : Causes serious eye irritation. Triestlylene Glycol Dimethacrylate (109-16-0) pH 6.8 - 7.2 Titanium Dioxide (13463-67-7) pH 7 Source: ECHA Respiratory or skin sensitisation : May cause an allergic skin reaction. Gern cell mutagenicity : Not classified Titanium Dioxide (13463-67-7) IARC group ZB - Possibly carcinogenic to humans Reproductive toxicity Tot-single exposure May cause respiratory irritation. BISGMA (1565-94-2) StOT-single exposure STOT-single exposure May cause respiratory irritation. StOT-single exposure Not classified Sodium Filooride (7681-49-4) LOAEL (oral, rat. 90 days) * 4 mg/kg bodyweight Animal: rat, Guideline: other:EPA OPP 83-5 (Combined Chronic Toxicity / Carcinogenicity) NoAEL (oral, rat. 80 days) 350 ppm Animal: rat,	Triethylene Glycol Dimethacrylate (109-16-0)					
pH 7 Source: ECHA Serious eye damage/irritation : Causes serious eye irritation. Triethylene Glycol Dimethacrylate (109-16-0) pH pH 0.8 - 7.2 Titanium Dioxide (13463-67-7) pH pH 7 Source: ECHA Respiratory or skin sensitisation : May cause an allergic skin reaction. Gern cell mutagenicity : Not classified Titanium Dioxide (13463-67-7) IARC group IARC group 2B - Possibly carcinogenic to humans Reproductive toxicity : Not classified STOT-single exposure May cause respiratory irritation. BisGMA (1565-94-2) STOT-single exposure STOT-single exposure May cause respiratory irritation. Glass Filler (N/A) STOT-single exposure STOT-repeated exposure : Not classified Sodium Fluoride (7681-49-4) LOAEL (oral, rat, 90 days) VAEL (oral, rat, 90 days) = 4 mg/kg bodyweight Animal: rat, Guideline: other:EPA OPP 83-5 (Combined Chronic Toxicity / Carcinogenicity) NOAEL (oral, rat, 90 days) 350 pm Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhabation Toxicity: 90-Day Study), Remarks on results: other: NOAEC (inhalation, rat, gas, 90 days) 350 pm Animal: rat, Guid	рН	6.8 - 7.2				
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Germ cell mutagenicity : Not classified Titanium Dioxide (13463-67-7) IARC group IARC group 2B - Possibly carcinogenic to humans Reproductive toxicity : Not classified STOT-single exposure : Not classified STOT-single exposure May cause respiratory irritation. BisGMA (1565-94-2) STOT-single exposure STOT-single exposure May cause respiratory irritation. Glass Filler (N/A) STOT-single exposure STOT-single exposure May cause respiratory irritation. STOT-single exposure Not classified SOT-repeated exposure : Not classified SOLT - repeated exposure : Not classified SOLIM Fluoride (7681-49-4) IOAEL (oral, rat, 90 days) LOAEL (oral, rat, 90 days) = 4 mg/kg bodyweight Animal: rat, Guideline: other:EPA OPP 83-5 (Combined Chronic Toxicity / Carcinogenicity) Triethylene Glycol Dimethacrylate (109-16-0) IOAEC (inhalation, rat, gas, 90 days) LOAEC (inhalation, rat, gas, 90 days) 1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study), Remarks on results: other: NOAEL (oral, rat, 90 days) 1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reprodu	рН	7 Source: ECHA				
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Titanium Dioxide (13463-67-7) IARC group 2B - Possibly carcinogenic to humans Reproductive toxicity : Not classified STOT-single exposure : May cause respiratory irritation. BisGMA (1565-94-2) STOT-single exposure STOT-single exposure May cause respiratory irritation. Glass Filler (N/A) STOT-single exposure STOT-single exposure May cause respiratory irritation. STOT-single exposure May cause respiratory irritation. STOT-single exposure : Not classified Sodium Fluoride (7681-49-4) LOAEL (oral, rat, 90 days) LOAEL (oral, rat, 90 days) = 4 mg/kg bodyweight Animal: rat, Guideline: other:EPA OPP 83-5 (Combined Chronic Toxicity / Carcinogenicity) NOAEL (oral, rat, 90 days) = 25 mg/kg bodyweight Animal: rat, Guideline: other:EPA OPP 83-5 (Combined Chronic Toxicity / Carcinogenicity) Triethylene Glycol Dimethacrylate (109-16-0) LOAEC (inhalation, rat, gas, 90 days) JS0 ppm Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study), Remarks on results: other: NOAEL (oral, rat, 90 days) 1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) NOAEC (inhalation, rat, gas, 90 days) 100 ppm Animal: ra	Germ cell mutagenicity :	Not classified				
IARC group 2B - Possibly carcinogenic to humans Reproductive toxicity : Not classified STOT-single exposure : May cause respiratory irritation. BisGMA (1565-94-2) STOT-single exposure STOT-single exposure May cause respiratory irritation. Glass Filler (N/A) STOT-single exposure STOT-single exposure May cause respiratory irritation. STOT-single exposure May cause respiratory irritation. STOT-single exposure : Not classified Sodium Fluoride (7681-49-4) LOAEL (oral, rat, 90 days) LOAEL (oral, rat, 90 days) * 4 mg/kg bodyweight Animal: rat, Guideline: other:EPA OPP 83-5 (Combined Chronic Toxicity / Carcinogenicity) NOAEL (oral, rat, 90 days) * 25 mg/kg bodyweight Animal: rat, Guideline: other:EPA OPP 83-5 (Combined Chronic Toxicity / Carcinogenicity) Triethylene Glycol Dimethacrylate (109-16-0) LOAEC (inhalation, rat, gas, 90 days) JS0 ppm Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study), Remarks on results: other: NOAEL (oral, rat, 90 days) 1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) NOAEL (inhalation, rat, gas, 90 days) 100 ppm Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity	Carcinogenicity :	Not classified				
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STOT-single exposure May cause respiratory irritation. Glass Filler (N/A) STOT-single exposure STOT-single exposure May cause respiratory irritation. STOT-repeated exposure : Not classified Sodium Fluoride (7681-49-4) LOAEL (oral, rat, 90 days) LOAEL (oral, rat, 90 days) = 4 mg/kg bodyweight Animal: rat, Guideline: other:EPA OPP 83-5 (Combined Chronic Toxicity / Carcinogenicity) NOAEL (oral, rat, 90 days) = 25 mg/kg bodyweight Animal: rat, Guideline: other:EPA OPP 83-5 (Combined Chronic Toxicity / Carcinogenicity) Triethylene Glycol Dimethacrylate (109-16-0) LOAEC (inhalation, rat, gas, 90 days) J50 ppm Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study), Remarks on results: other: NOAEL (oral, rat, 90 days) 1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Streening Test) NOAEC (inhalation, rat, gas, 90 days) 1000 pm Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study), Remarks on results: other: NOAEC (inhalation, rat, gas, 90 days) 100 ppm Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study), Remarks on results: other: NOAEC (inhalation, rat, gas, 90 days) 100 ppm Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study), Remarks on results: other: <td>STOT-single exposure :</td> <td>May cause respiratory irritation.</td>	STOT-single exposure :	May cause respiratory irritation.				
Glass Filler (N/A) STOT-single exposure May cause respiratory irritation. STOT-repeated exposure : Not classified Sodium Fluoride (7681-49-4)	BisGMA (1565-94-2)					
STOT-single exposure May cause respiratory irritation. STOT-repeated exposure : Not classified Sodium Fluoride (7681-49-4)	STOT-single exposure	May cause respiratory irritation.				
STOT-repeated exposure : Not classified Sodium Fluoride (7681-49-4) LOAEL (oral, rat, 90 days) ~ 4 mg/kg bodyweight Animal: rat, Guideline: other:EPA OPP 83-5 (Combined Chronic Toxicity / Carcinogenicity) NOAEL (oral, rat, 90 days) ~ 25 mg/kg bodyweight Animal: rat, Guideline: other:EPA OPP 83-5 (Combined Chronic Toxicity / Carcinogenicity) Triethylene Glycol Dimethacrylate (109-16-0) LOAEC (inhalation, rat, gas, 90 days) 350 ppm Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study), Remarks on results: other: NOAEL (oral, rat, 90 days) 1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) NOAEC (inhalation, rat, gas, 90 days) 100 ppm Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study), Remarks on results: other: Aspiration hazard : Not classified Pad Lock and Pad Lock Thin with Fluoride Viscosity, kinematic Viscosity, kinematic Not applicable	Glass Filler (N/A)					
Sodium Fluoride (7681-49-4) LOAEL (oral, rat, 90 days) = 4 mg/kg bodyweight Animal: rat, Guideline: other:EPA OPP 83-5 (Combined Chronic Toxicity / Carcinogenicity) NOAEL (oral, rat, 90 days) = 25 mg/kg bodyweight Animal: rat, Guideline: other:EPA OPP 83-5 (Combined Chronic Toxicity / Carcinogenicity) Triethylene Glycol Dimethacrylate (109-16-0) EQAEC (inhalation, rat, gas, 90 days) 350 ppm Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study), Remarks on results: other: NOAEL (oral, rat, 90 days) 1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) NOAEC (inhalation, rat, gas, 90 days) 100 ppm Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study), Remarks on results: other: NOAEC (inhalation, rat, gas, 90 days) 100 ppm Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study), Remarks on results: other: Aspiration hazard : Not classified Pad Lock and Pad Lock Thin with Fluoride Not applicable	STOT-single exposure	May cause respiratory irritation.				
LOAEL (oral, rat, 90 days) * 4 mg/kg bodyweight Animal: rat, Guideline: other:EPA OPP 83-5 (Combined Chronic Toxicity / Carcinogenicity) NOAEL (oral, rat, 90 days) * 25 mg/kg bodyweight Animal: rat, Guideline: other:EPA OPP 83-5 (Combined Chronic Toxicity / Carcinogenicity) Triethylene Glycol Dimethacrylate (109-16-0) LOAEC (inhalation, rat, gas, 90 days) 350 ppm Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study), Remarks on results: other: NOAEL (oral, rat, 90 days) 1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) NOAEC (inhalation, rat, gas, 90 days) 100 ppm Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study), Remarks on results: other: NOAEC (inhalation, rat, gas, 90 days) 100 ppm Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: Study with the Reproduction / Developmental Toxicity Screening Test) NOAEC (inhalation, rat, gas, 90 days) 100 ppm Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study), Remarks on results: other: Aspiration hazard : Not classified Pad Lock and Pad Lock Thin with Fluoride Not applicable	STOT-repeated exposure :	Not classified				
Toxicity / Carcinogenicity) NOAEL (oral, rat, 90 days) ≈ 25 mg/kg bodyweight Animal: rat, Guideline: other:EPA OPP 83-5 (Combined Chronic Toxicity / Carcinogenicity) Triethylene Glycol Dimethacrylate (109-16-0) LOAEC (inhalation, rat, gas, 90 days) 350 ppm Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study), Remarks on results: other: NOAEL (oral, rat, 90 days) 1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) NOAEC (inhalation, rat, gas, 90 days) 100 ppm Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study), Remarks on results: other: NOAEC (inhalation, rat, gas, 90 days) 100 ppm Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study), Remarks on results: other: Aspiration hazard : Not classified Pad Lock and Pad Lock Thin with Fluoride Viscosity, kinematic Viscosity, kinematic Not applicable	Sodium Fluoride (7681-49-4)					
Toxicity / Carcinogenicity) Triethylene Glycol Dimethacrylate (109-16-0) LOAEC (inhalation, rat, gas, 90 days) 350 ppm Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study), Remarks on results: other: NOAEL (oral, rat, 90 days) 1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) NOAEC (inhalation, rat, gas, 90 days) 100 ppm Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study), Remarks on results: other: Aspiration hazard Not classified Pad Lock and Pad Lock Thin with Fluoride Not applicable	LOAEL (oral, rat, 90 days)					
LOAEC (inhalation, rat, gas, 90 days) 350 ppm Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study), Remarks on results: other: NOAEL (oral, rat, 90 days) 1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) NOAEC (inhalation, rat, gas, 90 days) 100 ppm Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study), Remarks on results: other: Aspiration hazard : Not classified Pad Lock and Pad Lock Thin with Fluoride Not applicable	NOAEL (oral, rat, 90 days)					
Day Study), Remarks on results: other:NOAEL (oral, rat, 90 days)1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)NOAEC (inhalation, rat, gas, 90 days)100 ppm Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90- Day Study), Remarks on results: other:Aspiration hazard:Not classifiedPad Lock and Pad Lock Thin with Fluoride Viscosity, kinematicNot applicable	Triethylene Glycol Dimethacrylate (109-16-0)					
Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) NOAEC (inhalation, rat, gas, 90 days) 100 ppm Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study), Remarks on results: other: Aspiration hazard : Not classified Pad Lock and Pad Lock Thin with Fluoride Viscosity, kinematic Not applicable	LOAEC (inhalation, rat, gas, 90 days)	350 ppm Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90- Day Study), Remarks on results: other:				
Day Study), Remarks on results: other: Aspiration hazard Not classified Pad Lock and Pad Lock Thin with Fluoride Viscosity, kinematic Not applicable	NOAEL (oral, rat, 90 days)	Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening				
Pad Lock and Pad Lock Thin with Fluoride Viscosity, kinematic Not applicable	NOAEC (inhalation, rat, gas, 90 days)	100 ppm Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90- Day Study), Remarks on results: other:				
Viscosity, kinematic Not applicable	Aspiration hazard :	Not classified				
	Pad Lock and Pad Lock Thin with Fluoride					
Sodium Fluoride (7681-49-4)	Viscosity, kinematic	Not applicable				
	Sodium Fluoride (7681-49-4)					
Viscosity, kinematic Not applicable	Viscosity, kinematic	Not applicable				

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Titanium Dioxide (13463-67-7)			
Viscosity, kinematic	Not applicable (solid)		
11.2. Information on other hazards			

2.1. Toxicity					
azardous to the aquatic environment, short-term : icute)	The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. Not classified Not classified				
Sodium Fluoride (7681-49-4)					
.C50 - Fish [1]	51 mg/l Test organisms (species): other:summary of findings in various species				
.C50 - Fish [2]	165 mg/l Test organisms (species): other:summary of findings in various species				
C50 - Crustacea [1]	97 mg/l (48 h, Daphnia magna, Static system, Fresh water, Experimental value, Fluorine ion)				
EC50 96h - Algae [1]	43 mg/l (Scenedesmus sp., Static system, Experimental value, Fluorine ion)				
IOEC (chronic)	14.1 mg/l Test organisms (species): Daphnia magna Duration: '21 d'				
NOEC chronic fish	4 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '21 d'				
BisGMA (1565-94-2)					
.C50 - Fish [1]	0.537 mg/l Source: ECOSAR				
Friethylene Glycol Dimethacrylate (109-16-0))				
.C50 - Fish [1]	16.4 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)				
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)				
C50 72h - Algae [2]	72.8 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)				
rC50 algae	> 100 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Nominal concentration)				
OEC (chronic)	100 mg/l Test organisms (species): Daphnia magna Duration: '21 d'				
IOEC (chronic)	32 mg/l Test organisms (species): Daphnia magna Duration: '21 d'				
Titanium Dioxide (13463-67-7)					
.C50 - Fish [1]	> 100 mg/l				
C50 - Crustacea [1]	> 1000 mg/l (Invertebrata, Fresh water)				
C50 - Other aquatic organisms [1]	> 100 mg/l Test organisms (species):				
C50 72h - Algae [1]	> 50 mg/l Source: ECHA				

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12.2. Persistence and degradability				
Sodium Fluoride (7681-49-4)				
Persistence and degradability	Biodegradability: not applicable.			
Chemical oxygen demand (COD)	Not applicable (inorganic)			
ThOD	Not applicable (inorganic)			
BisGMA (1565-94-2)				
Persistence and degradability	Biodegradability in water: no data available.			
Triethylene Glycol Dimethacrylate (109-16-0)				
Persistence and degradability	Readily biodegradable in water.			
Titanium Dioxide (13463-67-7)				
Persistence and degradability	Biodegradability: not applicable.			
Chemical oxygen demand (COD)	Not applicable (inorganic)			
ThOD	Not applicable (inorganic)			
12.3. Bioaccumulative potential				
Sodium Fluoride (7681-49-4)				
BCF - Fish [1]	53 - 58 (Pisces, Fresh water, Literature study, Fresh weight)			
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).			
BisGMA (1565-94-2)				
Partition coefficient n-octanol/water (Log Pow)	4.94 (Estimated value)			
Bioaccumulative potential	No bioaccumulation data available.			
Triethylene Glycol Dimethacrylate (109-16-0)				
Partition coefficient n-octanol/water (Log Pow)	2.3 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method)			
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).			
Titanium Dioxide (13463-67-7)	Titanium Dioxide (13463-67-7)			
Bioaccumulative potential	Not bioaccumulative.			
12.4. Mobility in soil				
Sodium Fluoride (7681-49-4)				
Ecology - soil	Adsorbs into the soil. Toxic to flora.			
Triethylene Glycol Dimethacrylate (109-16-0)				
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.89 (log Koc, SRC PCKOCWIN v2.0, Calculated value)			
Ecology - soil	Highly mobile in soil.			
Titanium Dioxide (13463-67-7)				
Surface tension	No data available in the literature			
Ecology - soil	Low potential for mobility in soil.			

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Component	nponent		
Sodium Fluoride (7681-49-4)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII		
Triethylene Glycol Dimethacrylate (109-16-0)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII		
Titanium Dioxide (13463-67-7)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII		

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations				
13.1. Waste treatment methods				
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.			
SECTION 14: Transport information				
In accordance with ADR / IMDG / IATA / ADN / RID				
14.1. UN number or ID number				
Not regulated for transport				
14.2. UN proper shipping name				

Proper Shipping Name (ADR)	: Not regulated
Proper Shipping Name (IMDG)	: Not regulated
Proper Shipping Name (IATA)	: Not regulated
Proper Shipping Name (ADN)	: Not regulated
Proper Shipping Name (RID)	: Not regulated
14.3. Transport hazard class(es)	
ADR	

ADR Transport hazard class(es) (ADR)	:	Not regulated
IMDG		
Transport hazard class(es) (IMDG)	:	Not regulated
IATA Transport hazard class(es) (IATA)	:	Not regulated
ADN Transport hazard class(es) (ADN)	:	Not regulated
RID Transport hazard class(es) (RID)	:	Not regulated
14.4. Packing group		
Packing group (ADR) Packing group (IMDG)		Not regulated Not regulated

: Not regulated

Packing group (IATA)

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Packing group (ADN) Packing group (RID)	: Not regulated : Not regulated
14.5. Environmental hazards	
Dangerous for the environment Marine pollutant Other information	: No : No : No supplementary information available
14.6. Special precautions for user	
Overland transport Not regulated	
Transport by sea Not regulated	

Air transport Not regulated

Inland waterway transport Not regulated

Rail transport

Not regulated

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

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15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes					
Section	Changed item	Change	Comments		
	Revision date	Added			
	Supersedes version of	Added			
	Issue date	Removed			
1.3	Display additional SDS EU addresses	Added			
2.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Modified			
2.2	Precautionary statements (CLP)	Modified			
2.2	Hazard statements (CLP)	Modified			
3	Composition/information on ingredients	Modified			
5.1	Suitable extinguishing media	Modified			
6.1	Emergency procedures	Modified			
7.1	Precautions for safe handling	Modified			

Full text of H- and EUH-statements:			
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3		
Carc. 2	Carcinogenicity, Category 2		
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2		
H301	Toxic if swallowed.		
H315	Causes skin irritation.		
H317	May cause an allergic skin reaction.		
H319	Causes serious eye irritation.		
H335	May cause respiratory irritation.		
H351	Suspected of causing cancer.		
Skin Irrit. 2	Skin corrosion/irritation, Category 2		
Skin Sens. 1	Skin sensitisation, Category 1		
Skin Sens. 1B	Skin sensitisation, category 1B		
STOT SE 3	Specific target organ toxicity - Single exposure, Category 3, Respiratory tract irritation		

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.