

Reliance Orthodontic Products, Inc.

Light Cure Retainer

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 1/6/2020 Version: 9

SECTION 1: Identification	
1.1. Identification	
Product form	: Mixture
Product name	: Light Cure Retainer
1.2. Recommended use and restriction	ns on use
Use of the substance/mixture	: For Rx Only
1.3. Supplier	
Manufacturer Reliance Orthodontic Products, Inc. 1540 Wes Itasca, IL 60143 USA 630-773-4009, (800) 323-4348, during normal www.relianceorthodontics.com	
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: Hazard(s) identificatio	n
2.1. Classification of the substance or	mixture
GHS-US classification	
Skin corrosion/irritation, Category 2 Serious eye damage/eye irritation, Category 2 Skin sensitisation, Category 1	H315 Causes skin irritation. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction.
Full text of H statements : see section 16	
2.2. GHS Label elements, including pro	acautionary statements
GHS US labelling Hazard pictograms (GHS US)	
Signal word (GHS US)	: Warning
Hazard statements (GHS US)	: H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation.
Precautionary statements (GHS US)	 P261 - Avoid breathing vapours. P264 - Wash hands thoroughly after handling P272 - Contaminated work clothing must not be allowed out of the workplace P280 - Wear protective gloves/protective clothing/eye protection/face protection P302+P352 - If on skin: Wash with plenty of water and soap P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P321 - Specific treatment (see First aid measures on this label) P332+P313 - If skin irritation 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. P363 - Wash contaminated clothing before reuse. P501 - Dispose in a safe manner in accordance with local/national regulations
2.3. Other hazards which do not result	in classification
No additional information available	
2.4. Unknown acute toxicity (GHS US)	
Not applicable	
SECTION 3: Composition/informati	ion on ingredients
2.1 Substances	

3.1. Substances

Not applicable

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3.2. Mixtures			
Name	Product identifier	%	GHS-US classification
BisGMA	(CAS-No.) 1565-94-2	10 - 30	Skin Irrit. 2, H315 Eye Irrit. 2B, H320 Skin Sens. 1, H317
Urethane Dimethacrylate	(CAS-No.) Proprietary	5 - 10	Skin Irrit. 2, H315 Eye Irrit. 2B, H320 STOT SE 3, H336
Triethylene Glycol Dimethacrylate	(CAS-No.) 109-16-0	5 - 10	Eye Irrit. 2, H319 Skin Sens. 1, H317

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures	
4.1. Description of first aid measures	
First-aid measures general	 Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. Allow the victim to rest.
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. Wash contaminated clothing before reuse. Specific treatment (see First aid measures on this label).
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. Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell. Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.
4.2. Most important symptoms and effects	s (acute and delayed)
Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/effects after inhalation	: May cause an allergic skin reaction.
Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction. Causes skin irritation.
Symptoms/effects after eye contact	: Eye irritation.
4.3. Immediate medical attention and spec	cial treatment, if necessary
Treat symptomatically.	
SECTION 5: Fire-fighting measures	
5.1. Suitable (and unsuitable) extinguishir	ng media
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Specific hazards arising from the che	mical
No additional information available	
5.3. Special protective equipment and pre	cautions for fire-fighters
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release measu	ures
6.1. Personal precautions, protective equi	ipment 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/vapors. Evacuate unnecessary personnel.
6.1.2. For emergency responders	
	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area.
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6.2.	2. Environmental precautions		
Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.			
6.3.	6.3. Methods and material for containment and cleaning up		
Method	ls for cleaning up	: Mechanically recover the product. On land, sweep or shovel into suitable containers. Minimise generation of dust. Store away from other materials.	
Other i	nformation	: Dispose of materials or solid residues at an authorized site.	
6.4.	Reference to other sections	\$	
For fur	her information refer to section	See Heading 8. Exposure controls and personal protection.	
SECT	ION 7: Handling and sto	rage	

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. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.
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. Wash hands thoroughly after handling.
7.2. Conditions for safe storage, includin	ng any incompatibilities
Storage conditions	: Store in a well-ventilated place. Keep cool. Protect from sunlight. Keep container closed when not in use.
Incompatible products	: Strong bases. Strong acids.
Incompatible materials	: Sources of ignition. Direct sunlight.

SECTION 8: Exposure controls/personal protection

8.1.	Control parameters		
Lig	Light Cure Retainer		
No	additional information available		
Trie	Triethylene Glycol Dimethacrylate (109-16-0)		
No	No additional information available		
Bis	BisGMA (1565-94-2)		
No	additional information available		
Ure	thane Dimethacrylate ((Proprietary)	
No	additional information available		

8.2. Appropriate engineering controls

Appropriate engineering controls Environmental exposure controls : Ensure good ventilation of the work station.: Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

Protective gloves. Wear protective gloves/protective clothing/eye protection/face protection protective gloves

Eye protection:

Safety glasses. Chemical goggles or safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. Wear appropriate mask

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Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemica	I properties
9.1. Information on basic physical and	d chemical properties
Physical state	: Solid
Appearance	: Paste.
Colour	: Light yellow
Odour	: Acrylic
Odour threshold	: No data available
рН	: No data available
Melting point	: No data available
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: Not applicable
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive limits	: Not applicable
Explosive properties	: No data available
Oxidising properties	: No data available
9.2. Other information	
No additional information available	
SECTION 10: Stability and reactivity	ty
10.1. Reactivity	
The product is non-reactive under normal cond	ditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions. Not established.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. Not established.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7). Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information		
11.1. Information on toxicological	effects	
Acute toxicity (oral)	: Not classified	
Acute toxicity (dermal)	: Not classified	
Acute toxicity (inhalation)	: Not classified	

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Triethylene Glycol Dimethacrylate (109-16-0)			
LD50 oral rat	10837 mg/kg		
LD50 dermal rat	N/A		
LD50 dermal rabbit	N/A		
LC50 inhalation rat (ppm)	N/A		
ATE US (oral)	10837 mg/kg bodyweight		
Urethane Dimethacrylate (Proprietary			
LD50 oral rat	N/A		
LD50 dermal rat	N/A		
LD50 dermal rabbit	N/A		
LC50 inhalation rat (ppm)	N/A		
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	: Not classified		
Carcinogenicity	: Not classified		
Caroniogenioky			
Reproductive toxicity	: Not classified		
	Net slow for d		
STOT-single exposure	: Not classified		
Triethylene Glycol Dimethacrylate (109-16-0)			
LOAEL (oral, rat)	N/A mg/kg bodyweight		
LOAEL (dermal, rat/rabbit)	N/A mg/kg bodyweight		
LOAEC (inhalation, rat, gas)	N/A ppmv/4h		
LOAEC (inhalation, rat, vapour)	N/A mg/l/4h		
LOAEC (inhalation, rat, dust/mist/fume)	N/A mg/l/4h		
Urethane Dimethacrylate (Proprietary			
LOAEL (oral, rat)	N/A mg/kg bodyweight		
LOAEL (dermal, rat/rabbit)	N/A mg/kg bodyweight		
LOAEC (inhalation, rat, gas)	N/A ppmv/4h		
LOAEC (inhalation, rat, vapour)	N/A mg/l/4h		
LOAEC (inhalation, rat, dust/mist/fume)	N/A mg/l/4h		
STOT-single exposure	May cause drowsiness or dizziness.		
STOT-repeated exposure	: Not classified		
Triethylene Glycol Dimethacrylate (109-16-0)			
LOAEL (oral, rat, 90 days)	N/A mg/kg bodyweight/day		
LOAEL (dermal, rat/rabbit, 90 days)	N/A mg/kg bodyweight/day		
LOAEC (inhalation, rat, gas, 90 days)	N/A ppmv/6h/day		
LOAEC (inhalation, rat, vapour, 90 days)	N/A mg/l/6h/day		
LOAEC (inhalation, rat,dust/mist/fume, 90	N/A mg/l/6h/day		
days)			
Urethane Dimethacrylate (Proprietary			
LOAEL (oral, rat, 90 days)	N/A mg/kg bodyweight/day		
LOAEL (dermal, rat/rabbit, 90 days)	N/A mg/kg bodyweight/day		
LOAEC (inhalation, rat, gas, 90 days)	N/A ppmv/6h/day		
LOAEC (inhalation, rat, vapour, 90 days)	N/A mg/l/6h/day		
LOAEC (inhalation, rat,dust/mist/fume, 90	N/A mg/l/6h/day		
days)			
Aspiration hazard	: Not classified		
Viscosity, kinematic	: No data available		
	. Depend on evolution data the elevation stitution are not write		
Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.		

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Symptoms/effects after inhalation	: May cause an allergic skin reaction.
Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction. Causes skin irritation.
Symptoms/effects after eye contact	: Eye irritation.

SECTION 12: Ecological information	on
12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

12.2. Persistence and degradability		
Light Cure Retainer		
Persistence and degradability	Not established.	
Triethylene Glycol Dimethacrylate (109-16-0)		
Persistence and degradability	Biodegradability in water: no data available.	
BisGMA (1565-94-2)		
Persistence and degradability	Biodegradability in water: no data available.	
12.3. Bioaccumulative potential Light Cure Retainer		
Bioaccumulative potential	Not established.	
Triethylene Glycol Dimethacrylate (109-16-0)		
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	
BisGMA (1565-94-2)		
Log Pow	4.94 (Estimated value)	
Bioaccumulative potential	No bioaccumulation data available.	

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other information

: Avoid release to the environment.

SECTION 13: Disposal consideration	ns
13.1. Disposal methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	: Avoid release to the environment.
SECTION 14: Transport information	
Department of Transportation (DOT)	
In accordance with DOT	
Other information	: No supplementary information available.
Transportation of Dangerous Goods	
Transport by sea	

Transport by sea

Air transport

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SECTION 15: Regulatory information	SECTIO	15: Regulator	v information
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15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory excent for:

Substances Control Act (TSCA) inventory except for.			
Urethane Dimethacrylate	CAS-No. Proprietary	5 - 10%	

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations

CANADA

Triethylene Glycol Dimethacrylate (109-16-0)		
Listed on the Canadian DSL (Domestic Substances List)		
BisGMA (1565-94-2)		
Listed on the Canadian DSL (Domestic Substances List)		
Urethane Dimethacrylate (Proprietary)		
Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)		

EU-Regulations

National regulations

No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

Other information

: None.

Full text of H-statements:

H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H319	Causes serious eye irritation.	
H320	Causes eye irritation	
H336	May cause drowsiness or dizziness.	

SDS US (GHS HazCom 2012)

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.