

## Section I - IDENTIFICATION

Product Name: CrossLink® Light Cure Band Cement

Common Name: Orthodontic Adhesive

Material: Band Cement

**Recommended Use:** TP Orthodontics' products are intended for use in orthodontic treatment.

**Restrictions on Use:** TP Orthodontics' products are intended for use by trained dental professionals and

orthodontists, who have the primary responsibility to identify any possible

contraindications that may preclude the use of this product. U.S. Federal law restricts

this device to sale by or on the order of a dental professional.

**Product Manufacturer:** TP Orthodontics, Inc.

100 Center Plaza

La Porte, IN 46350-9672 USA

Phone: 800-348-8856 Hours: M-Th 7a-4:30p Fax: 219-324-3029

Internet: www.tportho.com

**Emergency Number**: 800-348-8856

Available during normal business hours: Monday-Thursday 7am to 5pm CST and

Friday 7am to 12pm CST

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#### Section II - HAZARD IDENTIFICATION

<u>General Hazard Statement:</u> This SDS has been prepared in accordance with the U.S. OSHA Hazard Communication Standard, which requires the inclusion of known hazards of the product or ingredients regardless of the potential risk. The risks of the hazards communicated in this document may vary depending on the potential and type of exposure.

#### Pictograms:



Signal word: Warning

#### Classification of the substance or mixture:

GHS Classification in accordance with 29 CFR 1910.1200 (OSHA HCS)

Skin irritation (Category 2) H315 Eye irritation (Category 2A) H319 Skin sensitization (Category 1) H317

#### **Hazard statements:**

H315 -- Causes skin irritation

H317 -- May cause an allergic skin reaction

H319 -- Causes serious eye irritation

### **Precautionary statements:**

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, face protection

P363 -- Wash contaminated clothing before reuse

P302+P352 - IF ON SKIN: Wash with plenty of soap and water

P305+P351+P338 -- If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P333+P313 -- If skin irritation or rash occurs, get medical advice/attention

P337+P313 -- If eye irritation persists, get medical advice/attention

P501 -- Dispose in a safe manner in accordance with local/national regulations.

Hazards not otherwise classified (HNOC) or not covered by GHS: none

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### Section III - COMPOSITION/ INFORMATION ON INGREDIENTS

Mixtures: \*

Ingredient(s)	CAS No.	EC No.	Wt. %**
Bis-GMA	1565-94-2	216-367-7	10-20
2-Hydroxyethyl methacrylate	868-77-9	212-782-2	<10
Triethylene glycol dimethacrylate	109-16-0	203-652-6	<10
Pyromellitic dianhydride glycerol dimethacrylate	148019- 46-9	N/A	<4
4-Methoxyphenol	150-76-5	205-769-8	<0.1
Butylated hydroxytoluene	128-37-0	204-881-4	<0.1

<sup>\*</sup>No minor components need to be disclosed according to the applicable regulations.

## Section IV - FIRST-AID MEASURES

**Skin:** Take off contaminated clothing and immediately wash skin with soap and water. If

signs/symptoms develop, get medical attention. Wash clothing before reuse.

**Eyes:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Remove

contact lenses if easy to do and continue rinsing.

**Ingestion:** Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth

with water. Consult a physician.

**Inhalation:** Move into fresh air. If breathing difficulty occurs, get prompt medical attention.

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<sup>\*\*</sup>The exact weight percentages of this composition have been withheld as a trade secret. Other ingredients in the composition are deemed non-hazardous in the final mixture.



#### Section V - FIRE-FIGHTING MEASURES

Flash Point and Method: NA

Flammability Limits: NA

**Auto-ignition Temperature: NA** 

Melting Point: NA

**General Hazard:** Not combustible in the shipped form

Firefighting Instructions: No special instructions for product shipped

Firefighting Equipment: No special equipment for product as shipped

Combustion Products: No hazardous decomposition products are expected

#### Section VI - ACCIDENTAL RELEASE MEASURES

**General:** Avoid release to the environment. Prevent soil and water pollution. Prevent entry to

sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### Section VII - HANDLING AND STORAGE

**Storage Temperature:** Store at room temperature.

Storage Pressure: Not applicable.

General Storage: Keep product in a dry and well-ventilated place. Incompatible with strong bases and

acids. Store out of direct sunlight.

# Section VIII - EXPOSURE CONTROLS/ PERSONAL PROTECTION

### **Control Parameters**

Product does not contain relevant quantities of components with critical values that have to be monitored at the workplace.

#### **Personal Protection Equipment**

**Eyes**: Safety glasses recommended. Use equipment for eye protection tested and

approved under appropriate government standards such as NIOSH (US) or EN

166(EU).

**Skin:** Gloves recommended when handling.

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# Section IX - PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Blue paste
Odor	Slight acrylate odor
Physical State	Semi-solid paste
рН	N/A
Melting/Boiling Point	N/A
Flash Point	N/A
Evaporation Rate	N/A
Flammability	N/A
Vapor Pressure	N/A
Vapor Density	N/A
Relative Density	N/A
Solubility in water	N/A
Auto-ignition Temp	N/A
Decomposition Temp	N/A
Viscosity	85,000-600,000 cps

## Section X – STABILITY AND REACTIVITY

**Stability:** Stable under recommended storage conditions.

**Reactivity:** No data available.

**Incompatible Material:** Strong bases, strong oxidizing agents.

Conditions to Avoid: Direct sunlight. May polymerize on exposure to light. Extreme high or low

temperatures.

# Section XI - TOXICOLOGICAL INFORMATION

### **Acute toxicity**

Individual components:

Ingredient	Toxicology Data
Bis-GMA	Not classified – no animal test data available, high viscosity
2-Hydroxyethyl methacrylate	LD50 Oral (Rat): 5564 mg/kg; LD50 Dermal (Rabbit): > 5,000 mg/kg
Triethylene glycol dimethacrylate	LD50 Oral (Rat): 10,837 mg/kg; LD50 Dermal (Mouse): > 2,000 mg/kg
Pyromellitic dianhydride glycerol	Not classified – no animal test data available, high viscosity
dimethacrylate	
4-Methoxyphenol	LD50 Oral: No data available; LD50 Dermal (Rat): > 2,000 mg/kg
Butylated hydroxytoluene	LD50 Oral (Rat): > 6,000 mg/kg; LD50 Dermal (Rat): > 2,000 mg/kg



### Section XII - ECOLOGICAL INFORMATION

# **Toxicity**

**Bis-GMA:** No data available, high viscosity.

### **Butylated hydroxytoluene**

Toxicity to fish (Oryzias latipes), LC50	5.3 mg/l (48 h)
Toxicity to water flea (Daphnia magna), static test EC50	0.48 mg/l (48 h)
Toxicity to bacteria (Protozoa), growth inhibition EC50	1.7 mg/l (24 h)

## 2-Hydroxyethyl methacrylate

Toxicity to fish (Oryzias latipes), semi-static test LC50	> 100 mg/l (96 h)
Toxicity to water flea (Daphnia magna), immobilization EC50	380 mg/l (48 h)
Toxicity to green algae (Selenastrum capricornutum), growth inhibition EC50	836 mg/l (72 h)

## Triethylene glycol dimethacrylate

Toxicity to zebra fish (Danio rerio), semi-static test LC50	16.4 mg/l (96 h)
Toxicity to green algae (Pseudokirchneriella subcapitata), growth inhibition EC50	72.8 mg/l (72 h)

Pyromellitic dianhydride glycerol dimethacrylate: No data available, high viscosity.

## 4-Methoxyphenol

Toxicity to rainbow trout (Oncorhynchus mykiss), LC50	28.5 mg/l (96 h)
Toxicity to water flea (Daphnia magna), EC50	3 mg/l (48 h)
Toxicity to green algae (Pseudokirchneriella subcapitata), ErC50	54.7 mg/l (72 h)
Toxicity to green algae (Pseudokirchneriella subcapitata), NOEC	2.96 mg/l (72 d)

## Section XIII - DISPOSAL CONSIDERATIONS

General: Safely dispose in accordance with local/national regulations. Adhesive may be cured

prior to disposal by exposing to ambient light.

## Section XIV - TRANSPORTION INFORMATION

Department of Transportation (DOT) Hazard Class: Not regulated

Hazard label (DOT): Not regulated

Packing group (DOT): Not regulated

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### Section XV - REGULATORY INFORMATION

TSCA (Toxic Substances Control Act):

Not Applicable

CERCLA (Comprehensible Response & Liability Act):

Not Applicable

SARA Title III (Superfund Amendments & Reauthorization Act):

311/312 Hazardous Categories - No chemicals in this product are subject to the

reporting requirements of SARA Title III, Section 302.

313 Product Ingredients – This product does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by

SARA Title III, Section 313.

California Safe Drinking Water Act (Prop 65) listing:

This product does not contain any chemicals known to State of California to cause

cancer, birth defects, or any other reproductive harm.

### **Section XVI – OTHER INFORMATION**

**HMIS Rating:** 

Health hazard: 2 Temporary or minor injury may occur.

Flammability: 1 Materials that must be preheated before ignition will occur.

Physical hazard: **0** Minimal hazard

**NFPA Rating:** 

Health hazard: 2 Short exposure could cause serious temporary or residual injury even though

prompt medical attention was given.

Fire hazard: 1 Materials that require preheating before ignition/combustion can occur.

Reactivity hazard: **0** Normally stable, even under fire exposure conditions, and are not reactive

with water.

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### Full text of H-Statements referred to under Section 2:

Skin Sens. 1 Skin sensitization Category 1
Skin Irrit. 2 Skin corrosion/irritation Category 2

Eye Irrit. 2A Serious eye damage/eye irritation Category 2A

Aquatic Acute 1
Aquatic Acute 2
Aquatic Acute 3
Aquatic Chronic 1
Aquatic Chronic 3
Acute aquatic toxicity Category 3
Chronic aquatic toxicity Category 3

Acute Tox. 4 Acute toxicity Category 4

Repr. 2 Reproductive toxicity Category 2

H302 Harmful if swallowed H315 Causes skin irritation

H317 May cause an allergic skin reaction

H319 Causes serious eye irritation

H361 Suspected of damaging fertility or the unborn child

H400 Very toxic to aquatic life
 H401 Toxic to aquatic life
 H402 Harmful to aquatic life

H410 Very toxic to aquatic life with long lasting effects
H412 Harmful to aquatic life with long lasting effects

All the information is collected from Supplier certificate of analysis, manufacturing process, technical files and known history from 70 years of experience and is believed to be correct as of the date issued.

By supplying above information, TP Orthodontics, Inc. assumes no legal responsibility of any kind for the accuracy, completeness, or use of the data supplied as well as the product mentioned in the foreclosure

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