

## Protech Glass Ionomer Cement Liquid

### Section 1. Identification

**GHS product identifier** : Protech Glass Ionomer Cement Liquid  
**Other means of identification** : Not available.  
**Product type** : Liquid.

**Relevant identified uses of the substance or mixture and uses advised against**

**Product use** : Dental product  
**Area of application** : Professional applications.

**Manufacturer** : **Manufacture for:**  
**Ormco Corporation**  
1717 West Collins Avenue  
Orange, CA 92867  
Telephone no.: 1-800-854-1741

**e-mail address of person responsible for this SDS** : Contact customer service at 1-800-854-1741 for any questions

**Emergency telephone number (with hours of operation)** : CHEMTREC® (24 hours) U.S. : 1-800-424-9300 International: +1-703-527-3887

### Section 2. Hazards identification

**OSHA/HCS status** : The product does not meet the criteria for classification as hazardous under the GHS and 29 CFR 1910.1200

**Classification of the substance or mixture** : None

**GHS label elements**

**Signal word** : None

**Hazard statements** : None

**Precautionary statements**

**Prevention** : Not applicable.

**Response** : Not applicable.

**Storage** : Not applicable.

**Disposal** : Not applicable.

**Hazards not otherwise classified** : None known.

## Section 3. Composition/information on ingredients

**Substance/mixture** : Mixture of the substances listed below with nonhazardous additions.  
**Other means of identification** : Not available.

### CAS number/other identifiers

**CAS number** : Not applicable.  
**Product code** : Not available.

Ingredient name	Other names	%	CAS number
No hazardous/reportable components.			

Formulation represents a Trade Secret Mixture

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.**

## Section 4. First aid measures

### Description of necessary first aid measures

**Eye contact** : No special measures are required.

**Inhalation** : If inhaled, remove to fresh air. Get medical attention if symptoms occur.

**Skin contact** : Avoid prolong contact with skin. Wash with water and soap if contact skin. If skin irritation, rash or allergic reaction occurs, consult a doctor

**Ingestion** : Induce vomiting if large amounts of materials is swallowed.

### Most important symptoms/effects acute and delayed

#### Potential acute health effects

**Eye contact** : Rinse opened eye for several minutes under running water. Then consult a doctor.

**Inhalation** : No known significant effects or critical hazards.

**Skin contact** : No known significant effects or critical hazards.

**Ingestion** : No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

**Eye contact** : No specific data

**Inhalation** : No specific data.

**Skin contact** : No specific data.

**Ingestion** : No specific data.

### Indication of immediate medical attention and special treatment needed if necessary

**Notes to physician** : The alkaline liquid can cause burns or allergic reactions. Vapors may cause dizziness or headache.

**Specific treatments** : No specific treatment.

**Protection of first-aiders** : In case of major fire and large quantities: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

## Section 4. First aid measures

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

**Suitable extinguishing media** : CO2, extinguishing powder or water spray.

**Unsuitable extinguishing media** : Do not use water jet.

**Specific hazards arising from the chemical** : None

**Hazardous thermal decomposition products** : Not applicable.

**Special protective actions for fire-fighters** : In case of major fire and large quantities: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions protective equipment and emergency procedures

**For non-emergency personnel** : Low release. For professional use only. Handling of product in very small amounts or in situations where release is highly unlikely

**For emergency responders** : Low release. See also the information in "For non-emergency personnel".

**Environmental precautions** : Low release. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up

**Small spill** : Small Quantity. For professional use only. Wipe up with soap, water and paper towels.

**Large spill** : Small Quantity. For professional use only. Absorb with an inert material and place in an appropriate waste disposal container.

## Section 7. Handling and storage

### Precautions for safe handling

**Protective measures** : No special measures are required for small quantities under normal and intended conditions of product use. For professional use only. Store at temperatures not exceeding 75°F. (24°C) and dry conditions.

**Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Avoid exposure to moisture and light.

## Section 7. Handling and storage

**Conditions for safe storage, including any incompatibilities** : Store at temperatures not exceeding 73°F. (23°C) and avoid exposure to light. Avoid exposure to moisture and light.

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

Ingredient name	Exposure limits
Not Applicable	

**Appropriate engineering controls** : No special measures are required for small quantities under normal and intended conditions of product use.

**Environmental exposure controls** : No special measures are required for small quantities under normal and intended conditions of product use.

### Individual protection measures

**Hygiene measures** : No special measures are required for small quantities under normal and intended conditions of product use.

**Eye/face protection** : No special measures are required for small quantities under normal and intended conditions of product use.

### Skin protection

**Hand protection** : No special measures are required for small quantities under normal and intended conditions of product use..

**Body protection** : No special measures are required for small quantities under normal and intended conditions of product use.

**Other skin protection** : No special measures are required for small quantities under normal and intended conditions of product use.

**Respiratory protection** : No special measures are required for small quantities under normal and intended conditions of product use.

## Section 9. Physical and chemical properties

### Appearance

<b>Physical state</b>	: Clear liquid.
<b>Color</b>	: Clear
<b>Odor</b>	: Mild characteristics odor
<b>Odor threshold</b>	: Not established
<b>pH</b>	: Not applicable.
<b>Melting point</b>	: Not applicable.

<b>Boiling point</b>	: ca 105°C
<b>Flash point</b>	: Not available.
<b>Specific gravity</b>	: Not applicable.

<b>Flammability (solid, gas)</b>	: Not available.
<b>Lower and upper explosive (flammable) limits</b>	: Not available.

<b>Vapor pressure</b>	: ca 720mm Hg at 100°C.
<b>Vapor density</b>	: ca 0.62.
<b>Relative density</b>	: ca 1.1
<b>Solubility</b>	: Virtually insoluble in water

<b>Solubility in water</b>	: Virtually
<b>Partition coefficient: n-octanol/water</b>	: Not available.
<b>Auto-ignition temperature</b>	: Not available

<b>Solids content</b>	: Not available
<b>Viscosity</b>	: Not available.

## Section 10. Stability and reactivity

<b>Reactivity</b>	: None
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<b>Chemical stability</b>	: The product is stable.
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<b>Possibility of hazardous reactions</b>	: Not applicable.
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<b>Conditions to avoid</b>	: Avoid exposure to elevated temperatures, to light and temperatures of 80°F
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<b>Incompatible materials</b>	: Contact with alkaline materials.
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<b>Hazardous decomposition products</b>	: None.
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## Section 11. Toxicological information

### Information on toxicological effects

#### Acutotoxicity

#### Irritation/Corrosion

#### Primary Irritant Effect:

**Skin:** Possibility of skin irritation or sensitization if not washed off promptly.

#### Sensitization

Sensitizing effect through inhalation is possible with prolonged exposure.

#### Mutagenicity

Not available.

#### Carcinogenicity

Not available.

#### Reproductivetoxicity

Not available.

#### Teratogenicity

Not available.

#### Specifictargetorgantoxicity(singleexposure)

Not available.

#### Specifictargetorgantoxicity(repeatedexposure)

Not available.

#### Aspirationhazard

Not available.

### Potential acute health effect

**Eye contact** : Possibility of irritation or sensitization if not washed off promptly.

**Inhalation** : No known significant effects or critical hazards.

**Skin contact** : Possibility of skin irritation or sensitization if not washed off promptly.

**Ingestion** : No known significant effects or critical hazards.

### Symptoms related to the physical chemical and toxicological characteristics

**Eye contact** : Adverse symptoms may include the following:  
irritation

**Inhalation** : No specific data.

**Skin contact** : No specific data.

**Ingestion** : No specific data.

## Section 11. Toxicological information

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Long term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Potential chronic health effects

Not available.

**General : Carcinogenicity** : No known significant effects or critical hazards.

**: Mutagenicity** : No known significant effects or critical hazards.

**Teratogenicity** : No known significant effects or critical hazards.  
No known significant effects or critical hazards.

**Developmental effects** : No known significant effects or critical hazards.

**Fertility effects** : No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

Not available.

## Section 12. Ecological information

### Toxicity

No further relevant information available.

### Persistence and degradability

Not available.

### Bioaccumulative potential

Not available.

### Mobility in soil

**Soil/water partition coefficient ( $K_{oc}$ )** : Not available.

**Other adverse effects** : No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

## Section 14. Transport information

	DOT Classification	IMDG	IATA
<b>UN number</b>	Not regulated.	Not regulated.	Not regulated.
<b>UN proper shipping name</b>	-	-	-
<b>Transport hazard class(es)</b>	-	-	-
<b>Packing group</b>	-	-	-
<b>Environmental hazards</b>	No.	No.	No.
<b>Additional information</b>	-	-	-

## Section 15. Regulatory information

**U.S. Federal regulations** : **United States inventory (TSCA 8b)**: All components are listed or exempted.

**Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)** : Not listed

**Clean Air Act Section 602 Class I Substances** : Not listed

**Clean Air Act Section 602 Class II Substances** : Not listed

**DEA List I Chemicals (Precursor Chemicals)** : Not listed

**DEA List II Chemicals (Essential Chemicals)** : Not listed

### SARA302/304

### Composition/information on ingredients

No products were found.

**SARA 304 RQ** : Not applicable.

### SARA311/312

**Classification** : None of the ingredients are listed.



## Section 15. Regulatory information

### [Composition/information on ingredients](#)

#### [SARA313](#)

#### [California Prop. 65](#)

None of the components are listed.

## Section 16. Other information

### [Hazardous Material Information System \(U.S.A.\)](#)

Health	*	1
Flammability		0
Physical hazards		0

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The customer is responsible for determining the PPE code for this material.

### [National Fire Protection Association \(U.S.A.\)](#)



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### [History](#)

Date of issue/Date of revision : 9/14/2014

## Section 16. Other information

**Date of previous issue** : No previous validation  
**Version** : 1  
**Prepared by** : Sci-Pharm

**Key to abbreviations** : ATE = Acute Toxicity Estimate  
BCF = Bioconcentration Factor  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
IATA = International Air Transport Association  
IBC = Intermediate Bulk Container  
IMDG = International Maritime Dangerous Goods  
LogPow = logarithm of the octanol/water partition coefficient  
MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
UN = United Nations

**References** : HCS (U.S.A.)- Hazard Communication Standard  
International transport regulations

▣ Indicates information that has changed from previously issued version.

### Noticetoreader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.