

**Safety Data Sheet**  
according to WHS Regulations

Printing date 20.12.2023

Revision: 20.12.2023

**1 Identification**

- **Product identifier**
- **Trade name: UltraCem™ Liquid**
- **Article number: SDS 320-001.05R01, 23229, 2056**
- **Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Dental Material
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**

Manufactured by SHOFU Dental Corporation for:  
Ultradent Products Inc.  
505 W. Ultradent Drive (10200 S)  
South Jordan, UT, 84095-3942  
USA  
onlineordersupport@ultradent.com

Ultradent Australia Pty Ltd.  
Level 22/2 Market Street  
Sydney NSW 2000  
Australia  
Email: info.anz@ultradent.com  
Toll Free: 1-800-290929

- **Further information obtainable from:** Customer Service
- **Emergency telephone number:**  
CHEMTREC (NORTH AMERICA) : (800) 424-9300  
(INTERNATIONAL) : +(703) 527-3887

**2 Hazard(s) Identification**

- **Classification of the substance or mixture**



Serious eye damage/irritation – Category 2A H319 Causes serious eye irritation.

Skin Sens. 1

H317 May cause an allergic skin reaction.

- **Label elements**
- **GHS label elements** The product is classified and labelled according to the Globally Harmonised System (GHS).
- **Hazard pictograms** GHS07
- **Signal word** Warning
- **Hazard-determining components of labelling:**  
2-Hydroxyethyl Methacrylate
- **Hazard statements**  
H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.
- **Precautionary statements**

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.

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- P280 Wear protective gloves / eye protection / face protection.  
 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 of contents/container in accordance with local/regional/national/international regulations.

### 3 Composition and Information on Ingredients

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

- **Dangerous components:**

868-77-9	2-Hydroxyethyl Methacrylate	≥10-<30%
	⚠ Skin Irrit. 2, H315; Serious eye damage/irritation – Category 2A, H319; Skin Sens. 1, H317	

- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

### 4 First Aid Measures

- **After inhalation:**  
 Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel unwell.  
 If symptom concerning breath goes out, call a POISON CENTER or doctor.  
 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:**  
 If on skin, skin irritation, get medical advice/attention.  
 Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**  
 Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. If eye irritation persists, get medical advice/attention.  
 Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** Rinse mouth with water. Seek medical advice if necessary.
- **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 Fire Fighting Measures

- **Extinguishing media** Powder, alcohol-resistant foam, carbon dioxide, dry sand.
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **Special hazards arising from the substance or mixture**  
 If it is not dangerous, the container is moved from the fire district.
- **Advice for firefighters:** Wear fire protective cloth and self-contained breathing apparatus, if necessary.
- **Protective equipment:**  
 Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

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### 6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures**

*Wear an appropriate protection tool.*

*It enters and is prohibited other than parties concerned.*

*Wear protective equipment. Keep unprotected persons away.*

- **Environmental precautions:**

*Attention should be take for the spillage not to flow into sewages, drains, and low ground.*

- **Methods and material for containment and cleaning up:**

*Wipe up and discard in a suitable container.*

*Dispose contaminated material as waste according to item 13.*

- **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:**

*Wear an appropriate protection tool, and avoids eyes, the cutaneous contacts.*

*Handling of the product exclusively restrict to dental specialists, according to the instructions for use.*

- **Information about fire - and explosion protection:** *Keep respiratory protective device available.*

- **Conditions for safe storage, including any incompatibilities**

*Store in a cool and dry place out of direct sunlight.*

*Separated from organic peroxide. Keep containers closed.*

- **Storage:**

- **Requirements to be met by storerooms and receptacles:** *No special requirements.*

- **Information about storage in one common storage facility:** *Not required.*

- **Further information about storage conditions:** *Keep container tightly sealed.*

- **Specific end use(s)** *No further relevant information available.*

### 8 Exposure controls and personal protection

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

- **Ingredients with limit values that require monitoring at the workplace:**

*The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.*

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

- **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.*

*Store protective clothing separately.*

*Avoid contact with the eyes.*

*Avoid contact with the eyes and skin.*

- **Respiratory protection:**

*Dust mask*

*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.*

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### · 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.

### · For the permanent contact in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:

Butyl rubber, BR

Nitrile rubber, NBR

### · Eye protection:



Tightly sealed goggles

### · Body protection: Protective work clothing

## 9 Physical and Chemical Properties

### · General Information

#### · Appearance:

- |                      |                 |
|----------------------|-----------------|
| · Form:              | Liquid          |
| · Colour:            | Clear           |
| · Odour:             | Characteristic  |
| · Odour threshold:   | Not determined. |
| · pH-value at 20 °C: | 2-3             |

#### · Change in condition

- |  |   |
|--|---|
| · Melting point/freezing point:            | Undetermined.                                 |
| · Initial boiling point and boiling range: | 100 °C  |
| · Flash point:                             | Not applicable.                               |
| · Flammability (solid, gas):               | Not applicable.                               |
| · Decomposition temperature:               | Not determined.                               |
| · Auto-ignition temperature:               | Product is not selfigniting.                  |
| · Explosive properties:                    | Product does not present an explosion hazard. |
| · Explosion limits:                        |   |
| · Lower:                                   | Not determined.                               |
| · Upper:                                   | Not determined.                               |
| · Vapour pressure:                         | Not determined.                               |
| · Density:                                 | Not determined.                               |
| · Bulk density:                            | 0 kg/m <sup>3</sup>                           |
| · Relative density                         | 1.2 (water=1)                                 |

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| · <b>Vapour density</b>                          | Not determined.                            |
| · <b>Evaporation rate</b>                        | Not determined.                            |
| · <b>Solubility in / Miscibility with water:</b> | Soluble.                                   |
| · <b>Partition coefficient: n-octanol/water:</b> | Not determined.                            |
| · <b>Viscosity:</b>                              |  |
| · <b>Dynamic:</b>                                | Not determined.                            |
| · <b>Kinematic:</b>                              | Not determined.                            |
| · <b>Other information</b>                       | No further relevant information available. |

### 10 Stability and Reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability** Stable under normal temperatures and pressures.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** Avoid direct sunlight and high temperature.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** None under normal conditions of storage and use.

### 11 Toxicological Information

- **Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:**

**868-77-9 2-Hydroxyethyl Methacrylate**

Oral	LD50	3,275 mg/kg (mouse) >5.564 mg/kg (rat)
	LC50 Fish	>100 mg/l (Fish)
Dermal	LD50	>3,000 mg/kg (rabbit)
	LC50(Daphnia magna)	24.1 mg/l (daphnia)

- **Skin corrosion/irritation**  
Based on available data, the classification criteria are not met.  
Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation**  
Causes serious eye irritation.  
Causes serious eye irritation.
- **Respiratory or skin sensitisation**  
May cause an allergic skin reaction.  
May cause an allergic skin reaction.
- **Germ cell mutagenicity**  
Based on available data, the classification criteria are not met.  
Based on available data, the classification criteria are not met.
- **Carcinogenicity**  
Based on available data, the classification criteria are not met.  
Based on available data, the classification criteria are not met.
- **Reproductive toxicity**  
Based on available data, the classification criteria are not met.  
Based on available data, the classification criteria are not met.

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- **STOT-single exposure**  
Based on available data, the classification criteria are not met.  
Based on available data, the classification criteria are not met.
- **STOT-repeated exposure**  
Based on available data, the classification criteria are not met.  
Based on available data, the classification criteria are not met.
- **Aspiration hazard**  
Based on available data, the classification criteria are not met.  
Based on available data, the classification criteria are not met.

### 12 Ecological Information

- **Toxicity**

- **Aquatic toxicity:**

<b>868-77-9 2-Hydroxyethyl Methacrylate</b>
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EC50	345 mg/kg (Algae)
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- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Must not reach sewage water or drainage ditch undiluted or unneutralised.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**  
Dispose of contents/container in accordance with international, federal, state, and local regulations.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### 14 Transport information

- |                                  |               |
|----------------------------------|---------------|
| · <b>UN-Number</b>               |               |
| · <b>ADG, IMDG, IATA</b>         | not regulated |
| · <b>UN proper shipping name</b> |               |
| · <b>ADG, ADN, IMDG, IATA</b>    | not regulated |

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· <b>Transport hazard class(es)</b>	
· <b>ADG, ADN, IMDG, IATA</b>	
· <b>Class</b>	not regulated
· <b>Packing group</b>	
· <b>ADG, IMDG, IATA</b>	not regulated
· <b>Environmental hazards:</b>	Not applicable.
· <b>Special precautions for user</b>	Not Applicable
· <b>Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
· <b>UN "Model Regulation":</b>	not regulated

### 15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **Australian Inventory of Industrial Chemicals**

All ingredients are listed.

· **Standard for the Uniform Scheduling of Medicines and Poisons**

All substances have the value S5.

· **Australia: Priority Existing Chemicals**

None of the ingredients is listed.

· **Directive 2012/18/EU**

· **Named dangerous substances - ANNEX I** None of the ingredients is listed.

· **Chemical safety assessment:** A chemical safety assessment has not been carried out.

### 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 from Section 3**

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

· **Department issuing SDS:** Environmental, Health, and Safety

· **Contact:** Customer Service

· **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

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*vPvB: very Persistent and very Bioaccumulative**NIOSH: National Institute for Occupational Safety**Skin Irrit. 2: Skin corrosion/irritation – Category 2**Serious eye damage/irritation – Category 2A: Serious eye damage/eye irritation – Category 2A**Skin Sens. 1: Skin sensitisation – Category 1***· \* Data compared to the previous version altered.**

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