

SECTION 1. Identification of the substance or mixture and of the supplier

1.1 Product identifier

Trade Name: ULTRACEM™ LIQUID

Article Number: SDS 320-001.05R01, 23229, 2056.

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

Relevant identified uses: Dental material

Uses advised against: No further data

1.3 Details of the supplier of the safety data sheet

Company/Undertaking identification

Manufactured by SHOFU Dental Corporation for Ultradent Products Inc.

Address: Ultradent Products Inc.

505 W. Ultradent Drive (10200 S)

South Jordan, UT 84095-3942, USA

onlineordersupport@ultradent.com

Information department: Customer Service

1.4 Emergency Telephone Number

CHEMTREC (NORTH AMERICA) : (800) 424-9300

INTERNATIONAL) : +(703) 527-3887

SECTION 2. Hazards identification

2.1 GHS Classification

HEALTH HAZARDS

EYE DAMAGE/IRRITATION

Category 2A

SENSITIZATION-SKIN

Category 1

2.2 Label elements

SYMBOL:



GHS07

SIGNAL WORD: Warning

HAZARD STATEMENTS

May cause an allergic skin reaction

Causes serious eye irritation

PRECAUTIONARY STATEMENTS

[Prevention]

Obtain special instruction before use.

Do not handle until all safety precautions have been read and understood.

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

Avoid breathing dust/fume/gas/mist/vapours/spray.

Wash hands thoroughly after handling.

[Response]

IF ON SKIN: Wash with plenty of water/soap.

If skin irritation or rash occurs: Get medical advice/attention.

IF IN EYES: 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.

[Storage]

Store in a cool and dark area.

[Disposal]

Dispose of contents and container in accordance with regulation.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

SECTION 3. Composition/information on ingredients

3.1 Chemical characterization: Mixtures

3.2 Ingredients and composition:

Component	CAS-No	Weight %
Polyacrylic acid	9003-01-4	
Deionized water	7732-18-5	
2-HEMA	868-77-9	10-20
Others	—	

3.3 Additional information: For the wording of the listed risk phrases refer to section 2

SECTION 4. First-aid measures

4.1 Description of first aid measures

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.

Skin contact: Wash immediately with soap and plenty of water. If on skin, skin irritation, get medical advice/attention.

Ingestion: Rinse mouth and seek medical advice if necessary.

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If symptom concerning breath goes out, call a POISON CENTER or doctor.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5. Fire-fighting measures

5.1 Extinguishing Media:

Powder, Alcohol-resistant foam, Carbon dioxide, Dry sand

5.2 Special hazards arising from the substance or mixture:

If it is not dangerous, the container is moved from the fire district.

5.3 Advice for firefighters:

Wear fire protective cloth and self-contained breathing apparatus, if necessary.

SECTION 6. Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures:
 - It enters and is prohibited other than parties concerned.
 - Wears an appropriate protection tool.
- 6.2 Environmental Precautions:
 - Attention should be taken for the spillage not to flow into sewages, drains, and low ground.
- 6.3 Methods and material for containment and cleaning Up:
 - Wipe up and discard in a suitable container.
- 6.4 Reference to other section:
 - See Section 7 for information on safe handling.
 - See Section 8 for information on personal protection equipment.
 - See Section 13 for disposal information.

SECTION 7. Handling and storage

- 7.1 Precautions for safe handling:
 - Wears an appropriate protection tool, and avoids eyes, the cutaneous contacts.
 - Handling of the product exclusively restrict to dental specialists, according to the instruction for use.
- 7.2 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.
- 7.3 Specific end use(s):
 - No further relevant information available.

SECTION 8. Exposure controls/personal protection

- 8.1 Control parameters:
 - 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.
- 8.2 Exposure controls:
 - Respiratory Protection:
 - Dust mask
 - Skin Protection:
 - Hand Protection
 - 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 the 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 break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:
Butyl rubber, BR
Nitrile rubber, NBR

Eye Protection: Safety goggles

SECTION 9. Physical and chemical properties

- 9.1 Information on basic physical and chemical properties:
- | | |
|---|---|
| Appearance/Odor/Colour: | Clear liquid with slightly characteristic odor. |
| Odour threshold: | Not determined. |
| pH: | 2-3 |
| Melting point/freezing point: | Not determined. |
| Boiling point: | ≈ 100 °C |
| Flash point: | Not determined. |
| Evaporation rate: | Not determined. |
| Flammability (solid, gas): | Not applicable. |
| Upper/lower flammability or explosive limits: | Not determined. |
| Vapour pressure: | Not determined. |
| Vapour density: | Not determined. |
| Relative density: | ≈ 1.2 (water=1) |
| Solubility: water solubility | Soluble. |
| Partition coefficient (n-octanol/water): | Not determined. |
| Auto-ignition temperature: | Not determined. |
| Decomposition temperature: | Not determined. |
| Viscosity: | Not determined. |
| Explosive properties: | Not applicable. |
| Oxidising properties: | Not applicable. |

- 9.2 Other information:
No further relevant information available.

SECTION 10. Stability and reactivity

- 10.1 Reactivity:
No further relevant information available.
- 10.2 Chemical stability:
Stable under normal temperatures and pressures.
- 10.3 Possibility of hazardous reactions:
No dangerous reactions known.
- 10.4 Condition to Avoid:
Avoid direct sunlight and high temperature.
- 10.5 Incompatible materials:
No further relevant information available.

10.6 Hazardous Decomposition Products:
None under normal conditions of storage and use.

SECTION 11. Toxicological information

11.1 Information on toxicological effects:

Acute toxicity:	2-HEMA;			
	Oral	rat	LD50	5564 mg/kg
	Dermal	rabbit	LD50	> 3000 mg/kg
Skin corrosion/irritation:	Based on available data, the classification criteria are not met.			
Eye damage/irritation:	Eye Irrit. 2A; H319 Causes serious eye irritation.			
Sensitization to the respiratory tract:	Based on available data, the classification criteria are not met.			
Skin sensitization:	Skin Sens. 1; H317 May cause an allergic skin reaction.			
Germ cell mutagenicity/Genotoxicity:	Based on available data, the classification criteria are not met.			
Carcinogenicity:	Based on available data, the classification criteria are not met.			
Reproductive toxicity:	Based on available data, the classification criteria are not met.			
Effects on or via lactation:	Lack of data.			
Specific target organ toxicity (single exposure):	Based on available data, the classification criteria are not met.			
Specific target organ toxicity (repeated exposure):	Based on available data, the classification criteria are not met.			
Aspiration hazard:	Based on available data, the classification criteria are not met.			

11.2 Information on other hazards:
No further relevant information available.

SECTION 12. Ecological information

12.1 Toxicity:
No further relevant information available.

12.2 Persistence and degradability:
No further relevant information available.

12.3 Bioaccumulative potential:
No further relevant information available.

12.4 Mobility in soil:
No further relevant information available.

12.5 Results of PBT and vPvB assessment:
Not applicable.

12.6 Other adverse effects:
No further relevant information available.

SECTION 13. Disposal considerations

13.1 Waste treatment methods:
Dispose of contents/container to in accordance with local/regional/national/international regulations.

SECTION 14. Transport information

- 14.1 UN number: Void
- 14.2 UN proper shipping name: Void
- 14.3 Transport hazard class (es): Void
- 14.4 Packing group: Void
- 14.5 Environmental hazards: No further relevant information available.
- 14.6 Special precautions for user: Not applicable.
- 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.

SECTION 15. Regulatory information

Follow all regulations in your country.

SECTION 16. Other information

This product is intended for use by dental professionals (instrument/material).

NFPA ratings (scale 0-4)

2-HEMA;



Health = 1
Fire = 1
Reactivity = 1

HMIS ratings (scale 0-4)

2-HEMA;

Health Hazard	1
Fire Hazard	1
Reactivity	1

Health = 1
Fire = 1
Reactivity = 1

Relevant phrases:

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

Abbreviations and acronyms:

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative