



LumiCera

CB200-BL / CB200-A1 / CB200-A2 /

CB200-B1 / CB200-C2

SAFETY DATA SHEET

SDS code: DT/MDQ-C-RDMS-075

Creation Date: April 24, 2025

Revision Date: December 19, 2025

Revision instructions: Second revision

Hangzhou SHINING3D Dental Technology Co., Ltd.

SECTION 1: Chemical product and company identification

English product name: LumiCera

English product code: CB200-BL / CB200-A1 / CB200-A2 / CB200-B1 / CB200-C2

Chemical Chinese name: 光敏聚合物树脂

Chemical English name: Photopolymer Resin

Product description: LumiCera is composed of methacrylate polymer resin with photo initiator, and pigments.

Identified uses: Photopolymer Resin for AccuFab Series and Ceramix Series 3D Printer.

Company: Hangzhou SHINING3D Dental Technology Co., Ltd.

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SDS code: DT/MDR-C-RDMS-075

SECTION 2: Hazards summarizing

GHS(Globally Harmonized System of Classification and Labeling of Chemicals):

Skin irritation, Category 2

Skin sensitization, Category 1

Serious eye damage, Category 1

Hazardous to the aquatic environment, Category 2

Pictogram(s):



Signal word Warning

Hazard statement(s)

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statement(s)

Prevention

P260 Do not breathing vapor. (uncured material only)

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves, protective clothing, eye protection, face protection.

Response

- P301 + P312 IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell.
 P302 + P352 IF ON SKIN: Wash with plenty of water.
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove lenses, if present and easy to do. Continue rinsing.
 P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
 P362 + P364 Take off contaminated clothing and wash it before reuse.
 P314 Get medical advice and attention if you feel unwell.

Storage: Not applicable.

Disposal

P501 Dispose of contents or container to an approved waste disposal plant.

Other hazards which do not result in classification

None

SECTION 3: Composition/information on ingredients

Ingredients: Photopolymer Resin/Mixture

Ingredients:	CAS No.	Composition (%)
(Meth)acrylated monomers	(Patent)	5~15%
(Meth)acrylated oligomers	(Patent)	15~25%
(Meth)acrylamide monomers	(Patent)	< 1%
Filler	(Patent)	50~60%
Photoinitiator	(Patent)	< 5%
Pigment	(Patent)	< 1%

SECTION 4: First-aid measures

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance.

Skin contact: Wash off with soap and plenty of water. Consult a physician.

Eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

SECTION 5: Fire-fighting measures

Specific Hazards

Toxic and irritating gases may be formed from decomposition of acrylate resin. High temperatures, accidental impurities, or exposure to radiation or oxidizers may cause spontaneous polymerization generating heat/pressure. Closed containers may rupture or explode during runaway polymerization. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

5.1 Extinguishing Media

Hazards from Combustion Products

Carbon monoxide, carbon dioxide and nitrogen oxides.

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Specific hazards arising from the chemical

No data available

5.3 Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Small spill: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill: Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or

mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous.

Do not reuse container.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure limit values

No data available

Biological limit values

No data available

8.2 Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH(US) or EN 166(EU).

Skin protection

Wear impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Respiratory protection

Wear dust mask when handling large quantities.

Thermal hazards

No data available

SECTION 9: Physical and chemical properties

Physical state	Liquid
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Color	Ivory
Odor	Ester-like Odor
Melting point/freezing point	No data available
Boiling point or initial boiling point and boiling rang	No data available
Flammability	No data available
Lower and upper explosion limit/flammability limit	No data available
Flash point	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
PH	No data available
Kinematic viscosity	No data available
Solubility	Almost insoluble in water, good solubility in most organic solvents.
Partition coefficient n-octanol/water (log value)	No data available
Vapor pressure	No data available
Density and/or relative density	No data available
Relative vapor density	No data available
Particle characteristics	No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

Light, electrostatic discharge, heat, humidity.

10.5 Incompatible materials

No data available

SECTION 11: Toxicological information

Acute toxicity

Oral: No data available

Inhalation: No data available

Dermal: No data available

Skin corrosion/irritation

No data available

Serious eye damage/irritation

No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

STOT-single exposure

No data available

STOT-repeated exposure

No data available

Aspiration hazard

No data available

SECTION 12: Ecological information

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Other adverse effects

No data available

SECTION 13: Disposal

Disposal methods

Product

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

Contaminated packaging

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning.

Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

SECTION 14: Transport information

14.1 UN Number

DOT, ADR, IMDG, IATA: Not dangerous goods.

14.2 UN Proper Shipping Name

Resin

14.3 Transport hazard class(es)

Packing Group 3 - Low Danger

14.4 Danger code (Kemler)

N/A

14.5 EMS Number

N/A

14.6 Transport in bulk according to Annex 1 of MARPOL73/78 and the IBC Code

N/A

SECTION 15: Regulatory information

Chemical name	Common names and synonyms	CAS number	EC number
Photopolymer Resin	Photopolymer Resin	Patent	None
European Inventory of Existing Commercial Chemical Substances (EINECS)			Not Listed
EC Inventor			Not Listed
United States Toxic Substances Control Act (TSCA) Inventory			Not Listed
China Catalog of Hazardous chemicals 2015			Not Listed
New Zealand Inventory of Chemicals (NZIoC)			Not Listed
Philippines Inventory of Chemicals and Chemical Substances (PICCS)			Not Listed
Chinese Chemical Inventory of Existing Chemical Substances (China IECSC)			Not Listed

SECTION 16: Other information

Information on revision

Creation Date	April 24, 2025
Revision Date	December 19, 2025

Abbreviations and acronyms

CAS: Chemical Abstracts Service

- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- RID: Regulation concerning the International Carriage of Dangerous Goods by Rail

- IMDG: International Maritime Dangerous Goods
- IATA: International Air Transportation Association
- DOT: United States Department of Transportation
- LC50: Lethal Concentration 50%
- LD50: Lethal Dose 50%
- EC50: Effective Concentration 50%

References

- IPCS - The International Chemical Safety Cards (ICSC), website:
<http://www.ilo.org/dyn/icsc/showcard.home>
- HSDB - Hazardous Substances Data Bank, website:
<https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm>
- IARC - International Agency for Research on Cancer, website: <http://www.iarc.fr/>
- eChemPortal - The Global Portal to Information on Chemical Substances by OECD,
website: http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en
- CAMEO Chemicals, website: <http://cameochemicals.noaa.gov/search/simple>
- ChemIDplus, website: <http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp>
- ERG - Emergency Response Guidebook by U.S. Department of Transportation, website:
<http://www.phmsa.dot.gov/hazmat/library/erg>
- Germany GESTIS-database on hazard substance, website:
<http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp>
- ECHA - European Chemicals Agency, website: <https://echa.europa.eu/>