



Safety Data Sheet

Light Cure Dental Adhesive

Page 1 of 5

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Light Cure Dental Adhesive

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

Light Cure Dental Adhesive is a 8th generation universal dental bonding agent specifically designed for meeting all your bonding needs either used as a strict self-etch dental bonding agent, or in combination with the traditional total etch or enamel etch procedures:

- Direct bonding under a light-cured composite or compomer fillings/resin modified glass ionomer restoratives;
- Repair of dental restorations of ceramic, composites and/or metal alloys;
- Indirect dental restorations cementation applications in combination with resin cement for cementation of all sorts of dental restorations including crowns, bridges, inlays/onlays, veneers, dental posts and other restorations made from materials of metals/alloys, mental-ceramic, all-ceramic and/or porcelain, composites, and their combinations;
- Seal hypersensitive areas of teeth.

1.3. Details of the supplier of the safety data sheet

Company Name: Rizhao HuGe Biomaterials Co., Ltd.
Address: 2 North Zhaoyang Road, Donggang District
City, State, Zip Code: Rizhao City, Shandong Province, China, 276800
Telephone: Tel: 86-633-2277268, Fax: 86-633-2277298
Email address: marketing@hugedental.com
Website: www.hugedental.com

SECTION 2: Hazards identification

2.1 Health Hazard

Health effects are based on the uncured material.

Classification of the

substance or mixture: FLAMMABLE LIQUIDS - Category 2

SKIN IRRITATION - Category 2

EYE IRRITATION - Category 2A

SKIN SENSITIZATION - Category 1

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)

(Respiratory tract irritation and Narcotic

effects) - Category 3

Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 10-30%

GHS label elements

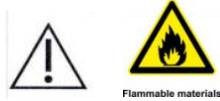
Hazard statements : Highly flammable liquid and vapor.
Causes serious eye irritation.
Causes skin irritation.
May cause an allergic skin reaction.
May cause respiratory irritation.
May cause drowsiness and dizziness.

Safety Data Sheet

Light Cure Dental Adhesive

Page 2 of 5

Hazard pictograms :



Precautionary statements

Prevention : Wear protective gloves. Wear eye or face protection. Keep away from heat, sparks, open flames and hot surfaces. - No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Avoid breathing vapor. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.
Response : IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical 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 attention.

Storage : Store locked up. Store in a well-ventilated place. Keep cool.

Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations.

Supplemental label elements: Avoid contact with skin and clothing. Wash thoroughly after handling.

Hazards not otherwise classified: Prolonged or repeated contact may dry skin and cause irritation

SECTION 3: Composition/information on ingredients

Element	CAS#	Exposure Limit (mg/m ³)	
		OSHA PEL	ACGIH TLV
HEMA	868-77-9	NE	NE
Bis-GMA	1565-94-2	NE	NE
GDMA	1380-78-0	NE	NE
Phosphate Methacrylate	Proprietary	N/A	N/A
Ethyl Alcohol	64-17-5	1900	1900
Photo-initiators	Mixture	N/A	N/A
Silica (amorphous)	69012-64-2	NE	2R
Butylated hydroxytoluene (BHT)	128-37-0	NE	NE

Chemical characteristics: The light cured dental adhesive is primarily made of dental methacrylate resins of HEMA, BisGMA, HEMA, GDMA, Phosphate Methacrylate, minor superfine silica and solvents of Ethyl Alcohol along with light curing system.

SECTION 4: First aid measures

4.1 General Information:

After skin contact: Wash with plenty of soap and water.

After eye contact: Rinse with plenty of water and contact an ophthalmologist.



Safety Data Sheet

Light Cure Dental Adhesive

Page 3 of 5

After swallowing: Seek medical advice immediately.

SECTION 5: Firefighting measures

Extinguishing media: CO₂, water, foam, dry chemical
Protective equipment: Common gear for small commodities.

SECTION 6: Accidental release measures

Personal precautions: Avoid skin contact, wear protective equipment.
Environmental precautions: Absorb with inert material. Collect in closed containers and dispose of as recommended.
Methods for cleaning up: Dispose according to Federal, State and local regulations.
Additional information: Unknown.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Use at room temperature. Practice good hygienic measures.

7.2. Conditions for safe storage, including any incompatibilities

Keep container closed; store between 2°C~25°C. Refrigeration when not in use is recommended; Store away from direct sunlight, oxidizing and/or reducing agents or other incompatible matters.

SECTION 8: Exposure controls/personal protection

Personal protective equipment: Protective gloves, goggles are recommended.
General Measure of protection: Normal hygienic measures.
Respiration: Not necessary
Hands: Protective gloves.
Eyes: OSHA approved goggles or glasses.

SECTION 9: Physical and chemical properties

9.1 Appearance:

Form: Liquid
Color: transparent or pale yellow
Odor: Acetone and alcohol

9.2 Information on change in the physical state

Melting point/melting range: Unknown
Boiling point/boiling range: Unknown
Flash point: Closed cup: -17.8°C (-0.04°F) [Acetone]
Auto-ignition temperature: 360°C (680°F)
Danger of explosion: Unlikely
Density (combined): Approximately 1.0 gm/cm³
Vapor pressure: 24.5 kPa (184 mm Hg) [room temperature]
pH (combined): Unknown
Solubility in/miscibility with water: Yes
Contents of solvents: None
Decomposition temperature: Unknown



Safety Data Sheet

Light Cure Dental Adhesive

Page 4 of 5

Content of Solids (combined) : ≥ 40 % by weight

SECTION 10 : Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.
Chemical Stability: This product is stable.
Conditions to avoid: Keep away from heat, sparks and flame. Loss of inhibitor or heat may cause polymerization.
Incompatible materials: peroxide, amine, strong acids and alkalis.
Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11 : Toxicological information

This product has been found complying with ISO 10993 for complete biocompatibility assessments based on the criteria of the test protocols.

SECTION 12 : Ecological information

General information: Unknown
Classification of water endangerment: Not determined

SECTION 13 : Disposal considerations

Dispose in accordance with Federal, State and local regulations.

SECTION 14 : Transport information

UN number: None
class: Class 3; highly flammable liquid.
packaging group: None
ocean harmful substances: None
other relevant information: Special precautions for user: Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

SECTION 15: Regulatory information

311/312 Hazard Categories: Fire Hazard –Yes; Pressure Hazard – No; Reactivity Hazard – No; Immediate Hazard – Yes; Delayed Hazard – No

Classification according to EEC guidelines: Unknown

National Prescriptions: Unknown

Classification according to VbF: Unknown

SECTION 16: Other information



Safety Data Sheet

Light Cure Dental Adhesive

Page 5 of 5

No further technical information

The present data sheet contains technical-scientific information processed at best of our knowledge. We recommend verifying national and regional regulations applicable to the specific utilize field as well as regulations relative hygienic and safety on work and environment worship.

All information contained in the present data sheet is correct and processed in good faith. However they do not involve any obligation, guarantee and patent concession.

The characteristics mentioned in the following document do not constitute contractual specifications.

The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.