

Section 1. Product and Company Identification

Product Identification: Castable resin for jewelry LC-2002

Company: Shenzhen Esun Industrial Co.,Ltd.

Website: www.esun3d.net

ADD: Wuhan University Building A403- I ,No.6 Yuexing2 Road, Nanshan District, Shenzhen, China

Tel: (086)-0755-26031975

Section 2. Hazard(s) Identification

GHS Hazard Classification of the Substance or Mixture:



Signal Word: Warning

Signal Word: Danger

Hazard Statement(s):

H317 May cause an allergic skin reaction

H320 Causes eye irritation

H303 May be harmful if swallowed (uncured material only)

H335 May cause respiratory irritation (uncured material only)

Precautionary Statement(s):

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P261 Avoid breathing dust or fume. (uncured material only)

P264 Wash thoroughly after handling.

P272 Contaminated workclothingshouldnotbeallowedoutoftheworkplace.

P273 Avoid release to theenvironment.

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

P337+P313 If eye irritation persists: Get medical attention.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P333+P313 If skin irritation or rash occurs: Get medical attention.

P362 Take off contaminated clothing and wash before reuse.

P363 Wash contaminated clothing before reuse.

P308+P313 IF exposed or concerned: Get medical attention.

P405 Store locked up.

P501 Dispose of contents and container in accordance with local and national regulations.

Description of any hazards not otherwise classified: N/A

For a mixture, the percentage of total ingredient(s) of ingredient(s) with unknown acute toxicity: 2%

NFPA Ratings (0-4)

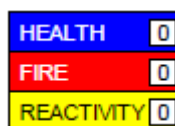


Health = 0

Fire = 0

Reactivity = 0

HMIS Ratings (0-4)



Health = 0

Reactivity = 0

Fire = 0

Safety Data Sheet(SDS)

According to GHS

Report No.: ESUN2018022601-7E Date: Jul.26 , 2017

Section 3. Composition/Information on Ingredients

Chemical Name, Common Name and Synonyms:	CAS#andotherunique identifiers	% by Weight
Acrylic Oligomers*	55818-57-0	40-50%
Monomer	13048-33-4	20-40%
Color pigment		2-5%
Photoinitiators*	947-19-3	3-5%

*Denotesthatthespecificchemicalidentityand/orexactpercentage(concentration)ofcomposition hasbeenwithheldasatradesecret.

Section 4. First-Aid Measures

Afterinhalation: Removefromsourceofexposureintofreshair. Seekmedicalattentionifanyirritation develops.

After skincontact: Washskinwithsoapandwater. Removeanycontaminatedclothingandshoesand cleanbefore reuse. Seekmedicalattentionifirritationdevelops.

Aftereyecontact: Hold eyeopenandrisecontinuouslywithagentlestreamofcleanrunningwaterfor atleast15minutes. Seekmedicalattentionifanyirritationdevelops.

After swallowing: Firstaidisunlikelytoberequiredbutifnecessary, rinse mouthrepeatedlywithwater, ensuring that the water is not swallowed. Seek medicalattention.

Information for Doctors: Treat symptoms conventionally after thorough decontamination.

Section 5. Fire-Fighting Measures

Suitable extinguishing agents: Chemical foam, carbon dioxide or dry chemical extinguishers.

Special hazards arising from the substance or mixture: Formation of toxic, irritating gases is possible from the decomposition of the methacrylate resins. Heat can cause polymerization with rapid release of energy.

Advice for firefighters: Wear full protective equipment (bunker gear) and a self-contained breathing apparatus (SCBA). Water may not be effective in extinguishing a fire involving this product.

Protective equipment: Wear full protective equipment (bunker gear) and a self-contained breathing apparatus (SCBA). Water may not be effective in extinguishing a fire involving this product.

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Safety glasses with side shields, gloves and laboratory coat recommended.

Environmental precautions: Avoid release to the environment. Report releases as required by local and national authorities.

Methods and material for containment and cleaning up: Exposure to sunlight or artificial light will cause the resin to polymerize. Spread the paste to maximize the surface area. Once the material is hard, pick up and place into a container for disposal.

Reference to other sections: Refer to Section 8 for Personal Protective Equipment and Section 13 for Disposal information.

Section 7. Handling and Storage

Precautions for safe handling: Avoid contact with the eyes, skin and clothing. Avoid breathing dust or fumes. Wear protective clothing and equipment as described in Section 8. Use with adequate ventilation. Wash thoroughly with soap and water after handling. Keep containers closed when not in use. Do not reuse containers. Empty containers retain product residues and can be hazardous. Follow all SDS precautions when handling empty containers.

Conditions for safe storage, including incompatibilities: Store in a tightly closed container in a cool (29-90°F/-1.7-32.2°C), well-ventilated location away from incompatible materials. Do not store near high temperatures, light or ignition sources. Do not store in an oxygen-free environment. Avoid freezing the material.

Specific end use(s). For professional use only.

Section 8. Exposure Controls / Personal Protection

Control parameters: Use in an enclosed process area is recommended.

Personal protective equipment: Depending on the conditions of use, protective gloves, apron, boots, head and face protection should be worn. Eye protection such as chemical splash goggles and/or face shield must be worn when the possibility exists for eye contact due to splashing or spraying liquid, airborne particles, or vapor.

General protective and hygienic measure: Wash hands after handling material and before eating. See section 7 for full protective measures.

Breathing Equipment: None should be needed from normal use. If this material is handled at elevated temperature or under mist forming conditions, approved respiratory protection equipment should be used. Selection and use of respiratory equipment must be in accordance with applicable regulations and good industrial hygiene practice.

Protection of hands: Gloves are recommended. Depending on the condition of use, lab coat and/or arm shields may be used.

Material of gloves, Penetration time of glove material: N/D

Eye protection: Use of safety goggles with side shields is recommended.

Section 9. Physical and Chemical Properties

Information on basic physical and chemical properties.

General Information.

Appearance

Form: Colored Liquid

Color: Colored, or having an intentionally added pigmented color.

Odor: Ester-like odor.

Odor Threshold: N/D

pH value at 20°C (68°F): N/D

Change in condition

Melting point/Melting range: N/D

Boiling point/Boiling range: N/D

Flash point: (PMCC) GT 93C/200F

Flammability (solid, gaseous): N/D

Ignition Temperature: N/D

Decomposition temperature: N/D

Auto igniting: N/D

Danger of explosion: N/D

Explosion limits: N/D

Lower: N/D

Upper: N/D

Vapor Pressure at 20°C (68°F): N/D

Density at 20°C (68°F): N/D

Relative density: N/D

Vapor Density: N/D

Evaporation rate: N/D

Miscibility with Water: Nearly insoluble in water.

Partition coefficient (n-octanol/water): N/D

Viscosity Units, Temp. (Brookfield)

220-250 cps at 25C/77F

Solvent content: N/D

Organic solvents: N/D

Water: N/D

Solids content: N/D

Other information: Specific Gravity: 1.10-1.125 at 25C/77F

Section 10. Stability and Reactivity

Reactivity: None known.

Chemical Stability: Stable if handled and stored as directed.

Thermal decomposition/Conditions to avoid: Avoid heat, light and sources of contamination.

Possibility of hazardous reactions/Conditions to avoid: Heat, light, sources of contamination or inhibitor depletion may cause spontaneous polymerization generating heat and pressure. Closed containers may rupture or explode during runaway polymerization.

Incompatible materials: Reducing and oxidizing agents, peroxides and amines.

Hazardous decomposition products: Thermal decomposition may release acrid smoke or fumes, carbon and nitrogen oxides.

Section 11. Toxicological Information

Acute toxicity: Possible irritant. See section 2.

Primary irritant effect: See Section 2 for possible skin and eye irritation and sensitization.

LD/LC50 values that are relevant for classification: N/D

Additional toxicological information: N/D

IARC (International Agency for Research on Cancer) None of the components are listed.

NTP (National Toxicology Program) None of the components are listed.

Section 12. Ecological Information

Aquatic Toxicity: None of the components are listed.

Persistence and degradability: No data is currently available.

Behavior in environmental systems: No data is currently available.

Bioaccumulative potential: No data is currently available.

Mobility in Soil: No data is currently available.

Additional ecological information: No additional data is available.

General Notes: Release into the environment should be avoided. Refer to section 13 for disposal information.

Results of PBT and vPvB assessment: N/D

Other adverse effects: None known.

Section 13. Disposal Considerations

Waste Treatment Methods

Recommendation: Cure material before disposal. Dispose in accordance with all federal, state and local regulations. Consult state and local hazardous waste regulations to ensure complete and accurate classification of waste. US EPA guidelines for the classification of hazardous waste are found in 40 CFR part 261.3.

Uncleaned packaging:

Recommendation: Rinse with alcohol. Contain and dispose of rinse material according to all federal, state and local regulations.

Recommended cleansing agent: alcohol

Section 14. Transport Information

Department of transportation classification: Not hazardous by D.O.T. regulations

D.O.T. proper shipping name: Not regulated

Other requirements: N/A

Australian HazChem Code: N/A

Safety Data Sheet(SDS)

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Section 15. Regulatory Information

The following provides a summary of the legal requirements.

Ingredient	EUROPEAN ECONOMIC COMMUNITY (EEC)					CANADA REGS	
	EPA* TSCA	CA Prop 65	EINECS	European Community Standards	Listed as dangerous chemicals per ESIS	EEC Symbol	DSL NDSL
A. Methacrylated oligomers	Yes	No	Yes	None	No	Xi; Irritant, R36/37/38, R43 S3,S7/9, S20, S26, S29, S37/39	Yes Yes
B. Methacrylated monomer	Yes	No	Yes	None	No	Xi; Irritant, R36/37/38, R43 S3,S7/9, S20, S26, S29, S37/39	Yes Yes
C. Photoinitiator(s)	Yes	No	Yes	None	No	H303, H402	Yes No

All the components present in this product at concentrations equal to or greater than 0.1% are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

Substance Preparation Classification:  Irritant

FULL TEXT OF ANY R-PHRASES AND S-PHRASES:

Risk Phrases:

R36/37/38 -- Irritating to eyes, respiratory system and skin
R43 -- May cause sensitization by skin contact

Safety Phrases:

S3 -- Keep in a cool place S7/9 -- Keep container
S20 -- When using do not eat or drink
S26 -- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S29 -- Do not empty into drains
S36 -- Wear suitable protective clothing
S37/39 -- Wear suitable gloves and eye/face protection

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. Pursuant to Title III of the Superfund Amendments and Reauthorization Act of 1986, (SARA) and 40 CFR 372 Part 372, this product does not contain chemicals subject to the reporting requirements under Section 313. California Proposition 65: This product does not contain chemicals which are known to the state of California to cause cancer.

Section 16. Other Information
Abbreviations and Acronyms: None. Other information not contained elsewhere: None.