

Safety Data Sheet(SDS) According to GHS

Report No.: ESUN2019072601-7E Date: July.26,

2019

Section 1. Product and Company Identification

Product Identification: Dental Model Resin 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.

P272Contaminatedworkclothingshouldnotbeallowedoutoftheworkplace.

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+P313lfskinirritationorrashoccurs:Getmedicalattention.

P362 Take of fcontaminated clothing and was hbe for ere use.

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

Foramixture, the percentage of total ingredient (s) of ingredient (s) with unknown acute to xicity: 2%

NFPA Ratings (0-4)



Health = 0

Fire = 0

Reactivity = 0

HMIS Ratings (0-4)



Health = 0

Reactivity = 0

Fire = 0



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Section 3. Composition/Information on Ingredients			
Chemical Name, Common Name and Synonyms:	CAS#andotherunique identifiers	% by Weight	
Acrylic Oligomers*	55818-57-0	20%	
Monomer	13048-33-4	70%	
Color pigment		5%	
Photoinitiators*	947-19-3	5%	

^{*}Denotes that the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a tradesecret.

Section 4. First-Aid Measures

Afterinhalation: Remove from source of exposure into freshair. Seek medical attention if any irritation develops.

Afterskincontact: Washskinwithsoapandwater. Removeany contaminated clothing and shoes and clean before reuse. Seek medical attention if irritation develops.

Aftereyecontact: Holdeyeopenandrisecontinuouslywithagentlestreamofcleanrunningwaterfor atleast15minutes. Seekmedical attention if any irritation develops.

Afterswallowing: Firstaid is unlikely to be required but if necessary, rinsemouth repeatedly withwater, ensuring that the water is not swallowed. Seek medical attention.

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. Specialhazardsarisingfromthesubstanceormixture:Formationoftoxic,irritatinggasesispossible fromthedecompositionofthemethacrylateresins.Heatcancausepolymerizationwithrapidrelease of energy.

Adviceforfirefighters: Wearfullprotective equipment (bunkergear) and a self-contained breathing apparatus. (SCBA). Watermay not be effective in extinguishing a fire involving this product. Protective equipment: Wearfull protective equipment (bunkergear) and a self-contained breathing apparatus. SCBA). Watermay not be effective in extinguishing a fire involving this product.

Section 6. Accidental Release Measures

Personal precautions, protective equipmentande mergency procedures: Safety glasses with side shields, gloves and laboratory coatrecommended.

Environmentalprecautions: Avoidreleases to the environment. Report releases as required by local and national authorities.

Methodsandmaterialforcontainmentandcleaningup: Exposuretosunlightorartificiallightwill causetheresintopolymerize. Spreadthepastetomaximizethesurfacearea. Oncethematerialis hard, pick up and place into a container fordisposal.

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



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Section 7. Handling and Storage

Precautionsforsafehandling: Avoidcontactwith theeyes, skinand clothing. Avoid breathing dustor 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. Donot reuse containers. Empty containers retain product residues and can be hazardous. Follow all SDS precautions when handling empty containers.

Conditionsforsafestorage, including and 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 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: Washhands after handling material and before eating. See section 7 for full protective measures.

BreathingEquipment:Noneshouldbeneededfromnormaluse.Ifthismaterialishandledatelevated 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 hygienepractice.

Protectionofhands: Gloves are recommended. Depending on the conditions 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 VaporPressureat20°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

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

ViscosityUnits,Temp.(Brookfield)

220-250 cps at 25C/77F Solvent content: N/D Organic solvents: N/D

Water: N/D

Solids content: N/D

Otherinformation: Specific Gravity: 1.10-1.125 at

25C/77F



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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. Possibilityofhazardousreactions/Conditionstoavoid: Heat, light, sources of contamination or inhibitor depletion may cause spontaneous polymerization generating heat and pressure. Closed containers may rupture or explode during runawaypolymerization.

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/LC50valuesthatarerelevantforclassification: 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. Behaviorinenvironmentalsystems: Nodataiscurrently available.

Bioaccumulativepotential: Nodataiscurrently 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, and the result of the r

stateandlocalregulations.

Recommended cleansing agent: alcohol



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Section	14.	Transport	Information
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Selection 14. Transport Information

IMDG IATA UN UN No. Not regulated Not regulated Not regulated

UN proper shipping name Hazard class(es) Packing group **Environmental hazards** No No No Marine Pollutant No No No

Land transport(ADG): Not regulated for transport of dangerous goods.

Air transport(ICAO-IATA/DGR): Not regulated for transport of dangerous goods.

Sea transport(IMDG-Code/GGVSee): Not regulated for transport of dangerous goods.

Transport in bulk according to Annex II of MARPOL and the IBC code.

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

The following provides a summary of the legal requirements.

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CANADA EUROPEAN ECONOMIC COMMUNITY (EEC) **REGS**

CA Listed as EPA* European

Ingredient **EEC** Prop dangerous **TSCA EINECS** Community Symbol DSL NDSL

chemicals

Standards

per ESIS

Xi; Irritant, R36/37/38,

R43 Methacrylated S3,S7/9, oligomers No Yes No Yes None S20,

S26, S29, S37/39 Xi; Irritant,

R36/37/38, R43 Methacrylated S3,S7/9,

monomer Yes No Yes None No S20, S26, S29, S37/39

C. H303,

Photoinitiator(s) Yes No Yes None No 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.

Yes

Yes

Yes

Yes



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Substance Preparation Classification:



Risk Phrases:

R36/37/38 -- Irritating to eyes, respiratory system and skin

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

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.