

4SDS Service Summary No.: CANEC23002367107 Date: 27 Jun 2023 Page 1 of 1

This SDS is to supersede SDS CANEC23002367103

SGS Job No. Product Name Manufacturer / Supplier Composition/Ingredient of product (as per applicant submission)	: : :	SZP23-000265 Standard Photopolymer Resin SHENZHEN ELEGOO TECHNOLOGY CO., LTD. See section 3 Composition/information on ingredients on the SDS
Job Receiving Date SDS Preparation Period		28 Apr 2023 28 Apr 2023-05 May 2023
Service Requested	:	Preparation of Safety Data Sheet (SDS) for the product with submitted information, with calculation of the classification and labeling requirement according to the submitted composition and US Hazard Communication Standard 29 CFR 1910.1200.
Summary	:	As per request, the contents and formats of the SDS are prepared in accordance with US Hazard Communication Standard 29 CFR 1910.1200, and is provided per attached.

This report updates Physical and chemical properties & Stability and reactivity.

Disclaimer

This Safety Data Sheet (SDS) is provided to applicant to fulfill US Hazard Communication Standard 29 CFR 1910.1200 and communicate the hazard information of chemicals through the supply chain to ensure safe use. It is not a test report or a certificate ensuring the safety of a product.

SGS has consolidated product information based on documents provided by Applicant (i.e. product name, the supplier details, product composition, available physical data, etc.) without independent verification from SGS. The information is provided without any warranty, express or implied, regarding its correctness.

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Zm guan Project Engineer

Printing date 06/21/2023

Version number 1

Reviewed on 05/04/2023

1 Identification

- · Product identifier
- · Trade name: Standard Photopolymer Resin
- · Recommended use of the chemical and restrictions on use:
- · Application of the substance / the preparation: 3D Printing
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier: SHENZHEN ELEGOO TECHNOLOGY CO., LTD.
- · Full address:

101, NO. 30, DAHE INDUSTRIAL ZONE, GUANCHENG COMMUNITY, GUANHU STREET, LONGHUA DISTRICT, SHENZHEN, CHINA

- Phone number: 0755-21005141
- · Email: INFO@ELEGOO.COM
- · Other U.S. contact point: Not available
- · Further information obtainable from: SHENZHEN ELEGOO TECHNOLOGY CO., LTD.
- Emergency telephone number: Poison Center Tel: +1 800 222 1222
- · Reference Number: CANEC23002367107,SZP23-000265

2 Hazard(s) identification

• *Classification of the substance or mixture Classification according to OSHA Hazard Communication Standard (29 CFR 1910.1200).*



Skin Irritation 2	H315 Causes skin irritation.
Eye Irritation 2A	H319 Causes serious eye irritation.
Sensitization - Skin 1	H317 May cause an allergic skin reaction.
Specific Target Organ Toxicity - Single Exposure 3	H335 May cause respiratory irritation.

· Information concerning particular hazards for human and environment:

The product has to be labeled due to the calculation procedure of OSHA Hazard Communication Standard (29 CFR 1910.1200).

· Classification system:

The classification is according to the latest edition of OSHA Hazard Communication Standard (29 CFR 1910.1200), and extended by company and literature data.

· Label elements

· Labelling according to OSHA Hazard Communication Standard (29 CFR 1910.1200)

· Hazard pictograms



· Signal word Warning

· Hazard-determining components of labeling:

Poly[oxy(methyl-1,2-ethanediyl)], a,a'-(2,2-dimethyl-1,3-propanediyl)bis[ω -[(1-oxo-2-propen-1-yl)oxy]-4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid

(5-ethyl-1,3-dioxan-5-yl)methyl acrylate

 $\label{eq:expectation} Ethyl \ phenyl (2,4,6-trimethyl benzoyl) phosphinate$

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Hazard stateme	
H315 Causes sl	
H319 Causes se	erious eye irritation.
H317 May caus	se an allergic skin reaction.
H335 May caus	se respiratory irritation.
Precautionary	statements
P261	Avoid breathing dust/fume/gas/mist/vapors/spray
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing must not be allowed out of the workplace.
P280	Wear protective gloves / eye protection / face protection.
P302+P352	If on skin: Wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P	338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
P312	Call a poison center/doctor if you feel unwell.
P321	Specific treatment (see on this label).
P362+P364	Take off contaminated clothing and wash it before reuse.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

· Hazards not otherwise classified (HNOC) No further relevant information available.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Description:

Mixture of the substances listed below with nonhazardous additions. For the wording of the listed hazard statements refer to Section 16.

· Composition:		
CAS: 84170-74-1	 Poly[oxy(methyl-1,2-ethanediyl)], α,α'-(2,2-dimethyl-1,3-propanediyl)bis[ω-[(1-oxo-2-propen-1-yl)oxy]- Skin Irritation 2, H315; Eye Irritation 2A, H319; Sensitization - Skin 1, H317; Specific Target Organ Toxicity - Single Exposure 3, H335 	41%
CAS: 55818-57-0	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3- epoxypropane, esters with acrylic acid Sensitization - Skin 1, H317	38%
CAS: 66492-51-1	(5-ethyl-1,3-dioxan-5-yl)methyl acrylate	14%
CAS: 84434-11-7	<i>Ethyl phenyl</i> (2,4,6-trimethylbenzoyl)phosphinate <i>Sensitization - Skin 1B, H317</i>	5%
CAS: 13463-67-7	Titanium dioxide	1.5%
CAS: 1333-86-4	Carbon black	0.5%

4 First-aid measures

· Description of first aid measures

• General description: Immediately remove any clothing soiled by the product.

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• After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

• After skin contact: Immediately wash with water and soap and rinse thoroughly.

- · After eye contact:
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- · After swallowing: If symptoms persist consult doctor.
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- *Indication of any immediate medical attention and special treatment needed No further relevant information available.*

5 Fire-fighting measures

- · Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- Special hazards arising from the substance or mixture: No further relevant information available.
- · Special protective equipment and precautions for firefighters

· Protective equipment: No special measures required.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures: Not required.
- · Environmental precautions:

Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. Dilute with plenty of water. Do not allow to enter severe surface or around water

Do not allow to enter sewers/ surface or ground water.

• *Methods and material for containment and cleaning up:* Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to section 13. Ensure adequate ventilation.

7 Handling and storage

· Precautions for safe handling:

Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.

For the general occupational hygienic measures refer to Section 8.

- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Store away from foodstuffs. Store away from water.
- Further information about storage conditions: Keep receptacle tightly sealed.

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Component	Components with limit values that require monitoring at the workplace:	
CAS: 13463	3-67-7 Titanium dioxide (1.5%)	
PEL (USA)	Long-term value: 15* mg/m ³ *total dust	
REL (USA)	See Pocket Guide App. A	
TLV (USA)	Long-term value: 0.2* 2.5** mg/m³ resp. fraction, *nanoscale, **finescale, A3	
CAS: 1333-	-86-4 Carbon black (0.5%)	
PEL (USA)	Long-term value: 3.5 mg/m ³	
REL (USA)	Long-term value: 3.5* mg/m ³ *0.1 in presence of PAHs;See Pocket Guide Apps.A+C	
TLV (USA)	Long-term value: 3* mg/m ³ *inhalable fraction, A3	

PEL (USA): Guide to Occupational Exposure Values (OSHA PELs) REL (USA): Guide to Occupational Exposure Values (NIOSH RELs)

TLV (USA): Guide to Occupational Exposure Values (TLV)

• Additional information: The lists that were valid during the creation were used as basis.

 \cdot Based on the composition shown in Section 3, the following measures are suggested for occupational safety measure.

Appropriate engineering controls: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.
See Section 7 for information about design of technical facilities.

· Individual protection measures, such as personal protective equipment

• Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air. • Hand protection:



Protective gloves

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.

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· Eye/face protection:



Tightly sealed goggles

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9 Physical and chemical properties	
• General Information • Appearance:	
Form:	Liquid
Color:	Grey
· Odor:	It is considered mildly irritating.
• Odor threshold:	Slight odor
· pH-value:	6.8-7.2
• Change in condition Melting point/Freezing point: Initial boiling point and boiling range:	-60 °C (-76 °F) 140 °C (284 °F)
· Flash point:	>250 °C (>482 °F)
· Flammability	Not available
• Auto-Ignition temperature:	>450 °C (>842 °F)
· Decomposition temperature:	>250 °C (>482 °F)
· Lower and upper explosion limit	
Lower:	Not available
Upper:	Not available
· Vapor pressure:	<0.01 mmHg
· Density at 25 °C (77 °F):	1.05 g/cm ³ (8.76225 lbs/gal)
· Relative density:	Not available
· Vapor density:	Not available
· Evaporation rate:	Not available
· Solubility in / Miscibility with Water:	Microsoluble in water
· Partition coefficient (n-octanol/water):	Not available
· Viscosity: Dynamic:	200-400 mPas
Kinematic:	Not available
• Other information	No further relevant information available.

10 Stability and reactivity

• *Reactivity:* No further relevant information available.

· Chemical stability: Stable under recommended storage and handling conditions

· Possibility of hazardous reactions: Strong oxide, acid and alkali, Strong reducing agent

· Conditions to avoid: Humidity, sunlight, high temperature

· Incompatible materials: No further relevant information available.

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· Hazardous decomposition products:

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11 Toxicological information

• Acute toxicity:

· LD/LC50 values that are relevant for classification:

CAS: 13463-67-7 Titanium dioxide

Oral LD50 >20,000 mg/kg (rat)

Dermal LD50 >10,000 mg/kg (rabbit)

CAS: 1333-86-4 Carbon black

Oral LD50 10,000 mg/kg (rat)

· Skin corrosion/irritation: Irritant to skin and mucous membranes.

· Serious eye damage/irritation: Irritating effect.

· Respiratory or skin sensitization: Sensitization possible through skin contact.

· Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)		
13463-67-7	Titanium dioxide	2B
1333-86-4	Carbon black	2B
· NTP (National Toxicology Program)		
None of the ingredients is listed.		
· OSHA-Ca (Occupational Safety & Health Administration)		
None of the ingredients is listed.		

12 Ecological information

· Toxicity

- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability: No further relevant information available.
- · Bioaccumulative potential: No further relevant information available.
- · Mobility in soil: No further relevant information available.
- Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- *Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach sewage system.*
- · Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.

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· Recommended cleansing agent: Water, if necessary with cleansing agents.

Transport information		
UN-Number		
DOT, IMDG, IATA	Not applicable	
UN proper shipping name		
DOT, IMDG, IATA	Not applicable	
Transport hazard class(es)		
DOT, IMDG, IATA		
Class	Not applicable	
Label	-	
Packing group		
DOT, IMDG, IATA	Not applicable	
Environmental hazards:		
Marine pollutant:	No	
Special precautions for user	Not applicable	
Transport in bulk according to Ann	ex II of	
MARPOL73/78 and the IBC Code	Not applicable	
Transport/Additional information:	Not applicable	
UN "Model Regulation":	Not applicable	

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture

· Sara

Section 355	(extremely hazardous substances):	
None of the	ingredients is listed.	
Section 313	(Specific toxic chemical listings):	
None of the	ingredients is listed.	
TSCA (Toxi	ic Substances Control Act):	
84170-74-1	$Poly[oxy(methyl-1,2-ethanediyl)], \alpha, \alpha'-(2,2-dimethyl-1,3-propanediyl)bis[\omega-[(1-oxo-2-propen-1-yl)oxy]-$	ACTIVE
55818-57-0	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3- epoxypropane, esters with acrylic acid	ACTIVI
66492-51-1	(5-ethyl-1,3-dioxan-5-yl)methyl acrylate	ACTIVE
13463-67-7	Titanium dioxide	ACTIVE
1333-86-4	Carbon black	ACTIVE

· Proposition 65

· Chemicals known to cause cancer:

13463-67-7 Titanium dioxide

1333-86-4 Carbon black

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

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Chemicals known to cause reproductive toxicity for males:	
None of the ingredients is listed.	
· Chemicals known to cause developmental toxicity:	
None of the ingredients is listed.	
· New Jersey Right-to-Know List:	
13463-67-7 Titanium dioxide	
1333-86-4 Carbon black	
New Jersey Special Hazardous Substance List:	
1333-86-4 Carbon black	CA
Pennsylvania Right-to-Know List:	
13463-67-7 Titanium dioxide	
Pennsylvania Special Hazardous Substance List:	
None of the ingredients is listed.	
Cancerogenity categories	
· EPA (Environmental Protection Agency)	
None of the ingredients is listed.	
· TLV (Threshold Limit Value)	
13463-67-7 Titanium dioxide	A
1333-86-4 Carbon black	A
NIOSH-Ca (National Institute for Occupational Safety and Health)	
13463-67-7 Titanium dioxide	
1333-86-4 Carbon black	

16 Other information

· Relevant hazard statements

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

The contents and format of this SDS are in accordance with 29 CFR 1910.1200.

DISCLAIMER OF LIABILITY

The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

· Date of preparation / last revision 06/21/2023

 Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent

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NIOSH: National Institute for Occupational Safety	
OSHA: Occupational Safety & Health	
Skin Irritation 2: Skin corrosion/irritation – Category 2	
Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A	
Sensitization - Skin 1: Skin sensitisation – Category 1	
Sensitization - Skin 1B: Skin sensitisation – Category 1B	
Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3	
$\cdot *$ Data compared to the previous version altered.	
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