Page 1/6

Safety Data Sheet

in accordance with EPA and WORKSAFE regulations

Printing date 11.02.2022

Revision: 11.02.2022

1 Identification of the substance or mixture and of the supplier

Product Name: PLA eResin Liquid in Filament

Other Means of Identification: Mixture **Part Number:** TL4433, TL4434, TL4435, TL4436, TL4437, TL4438, TL4439

Recommended Use of the Chemical and Restriction on Use: 3D Printer Filament Resin.

Details of Manufacturer or Importer: Electus Distribution

16-18 Fisher Crescent Mt Wellington, Auckland 1060

Phone Number: 0800 235 328

Emergency telephone number: National Poison Centre: 0800 POISON (0800 764-766)

2 Hazards identification

Hazardous Nature:

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Health and Safety at Work (Hazardous Substances) Regulations 2017, New Zealand. Not classified as Dangerous Goods for transport according to the New Zealand Standard NZS 5433:2020 Transport of Dangerous Goods on Land.



Skin Corrosion/Irritation 2 H315 Causes skin irritation.

Eye Irrit. 2AH319 Causes serious eye irritation.Skin Sensitisation 1H317 May cause an allergic skin reaction.

Signal Word Warning

Hazard Statements

H315 Causes skin irritation. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction.

Precautionary Statements

i i coudionary or	i recationary clatements			
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.			
P264	Wash thoroughly after handling.			
P272	Contaminated work clothing should 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.			
P305+P351+P338	B IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if			
	present and easy to do. Continue rinsing.			
P362+P364	Take off contaminated clothing and wash it before reuse.			
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.			
P321	Specific treatment (see on this label).			
P337+P313	If eye irritation persists: Get medical advice/attention.			
P501	Dispose of contents/container in accordance with local/regional/national regulations.			

3 Composition/Information on ingredients

Chemical Characterization: Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Safety Data Sheet

in accordance with EPA and WORKSAFE regulations

Printing date 11.02.2022

Revision: 11.02.2022

Product Name: PLA eResin Liquid in Filament

(Contd. of page 1)

Hazardous Com	ponents:	
CAS: 13048-33-4	Hexamethylene diacrylate	>30.0%
	Skin Corrosion/Irritation 2, H315; Eye Irrit. 2A, H319; Skin Sensitisation 1, H317	
CAS: 947-19-3	1-Hydroxycyclohexyl phenyl ketone	5.0%
	🚸 Eye Irrit. 2A, H319	
Non Hazardous	Components:	
CAS: 13463-67-7	Titanium dioxide	5.0%
4 First aid meas	sures	

Inhalation: If inhaled, remove to fresh air. Seek medical attention if breathing problems develop.

Skin Contact:

In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Seek medical attention if symptoms persist.

Eye Contact:

In case of eye contact, rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. Seek medical attention if symptoms persist.

Ingestion:

If swallowed, induce vomiting by drinking warm water. Keep head below hips to prevent aspiration. Do not give anything by mouth to an unconscious person. Seek medical attention if symptoms occur.

Symptoms Caused by Exposure:

Inhalation: May cause respiratory irritation.

Skin Contact: Causes skin irritation. May cause an allergic reaction. May cause redness.

Eye Contact: Causes serious eye irritation. May cause tearing and redness.

Ingestion: May cause gastrointestinal irritation.

5 Fire fighting measures

Suitable Extinguishing Media: Water mist, anti-ethanol foam, dry chemical powder, and carbon dioxide.

Specific Hazards Arising from the Chemical:

Hazardous combustion products include oxides of carbon.

Product is not flammable. However, when exposed to light, product reacts violently and solidifies, giving off intense heat and irritating gases.

Containers close to fire should be removed only if safe to do so. Use water spray to cool fire exposed containers.

Minimise run-off from fire fighting measures entering drains or water courses.

Special Protective Equipment and Precautions for Fire Fighters:

When fighting a major fire wear self-contained breathing apparatus and protective equipment.

6 Accidental release measures

Personal Precautions, Protective Equipment and Emergency Procedures:

Wear approved respiratory protection, chemical resistant gloves, protective clothing and safety boots. Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation. Extinguish all sources of ignition. Avoid sparks and open flames. No smoking.

Environmental Precautions:

In the event of a major spill, prevent spillage from entering drains or water courses.

Page 3/6

Safety Data Sheet

in accordance with EPA and WORKSAFE regulations

Printing date 11.02.2022

Revision: 11.02.2022

Product Name: PLA eResin Liquid in Filament

(Contd. of page 2)

Methods and Materials for Containment and Cleaning Up:

Stop leak if safe to do so and absorb spill with sand, earth, vermiculite or some other absorbent material. Collect the spilled material and place into a suitable container for disposal. Use only non-sparking tools.

7 Handling and storage

Precautions for Safe Handling:

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours. Use only outdoors or in a well-ventilated area.

Take precautionary measures against static discharge. Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

Conditions for Safe Storage:

Store in a cool, dry and well ventilated area. Keep container tightly closed when not in use. Protect from sunlight, heat, and sources of ignition. Keep away from oxidising agents, acids, bases, and illuminants. The recommended storage temperature is 18-35 °C.

8 Exposure controls/personal protection

Exposure Standards:

CAS: 13463-67-7 Titanium dioxide

WES TWA: 10 mg/m³

Engineering Controls:

Ensure adequate ventilation and heat dissipation, keeping airborne concentrations below occupational exposure standards. Use explosion-proof ventilating equipment.

Respiratory Protection:

Use an approved vapour respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapour, inadequate ventilation, development of respiratory tract irritation) and engineering controls are not feasible. See Australian Standards AS/NZS 1715 and 1716 for more information.

Skin Protection:

Rubber gloves. See Australian/New Zealand Standard AS/NZS 2161 for more information. When selecting gloves for use against certain chemicals, the degradation resistance, permeation rate and permeation breakthrough time should be considered.

Occupational protective clothing (depending on conditions in which it has to be used, in particular as regards the period for which it is worn, which shall be determined on the basis of the seriousness of the risk, the frequency of exposure to the risk, the characteristics of the workstation of each worker and the performance of the protective clothing). See Australian/New Zealand Standard AS/NZS 4501 for more information.

Eye and Face Protection:

Chemical safety glasses. See Australian/New Zealand Standard AS/NZS 1337 for more information.

9 Physical and chemical properties

Appearance:	
Form:	
Colour:	
Odour:	
Odour Threshold:	
pH-Value:	
Melting point/freezing point:	
Initial Boiling Point/Boiling Range:	

Liquid According to product specification Slight, ester-like No information available No information available No information available No information available

Page 4/6

Safety Data Sheet in accordance with EPA and WORKSAFE regulations

Printing date 11.02.2022

Revision: 11.02.2022

Product Name: PLA eResin Liquid in Filament

	(Contd. of page 3)
Flash Point:	No information available
Flammability:	Product is not flammable. However, when exposed to light, product reacts violently and solidifies, giving off intense heat and irritating gases.
Auto-ignition Temperature:	No information available
Decomposition Temperature:	No information available
Explosion Limits:	
Lower:	No information available
Upper:	No information available
Vapour Pressure:	No information available
Relative Density at 25 °C:	1.104 (Water = 1)
Vapour Density:	No information available
Evaporation Rate:	No information available
Solubility in Water:	Insoluble
Solubility in Solvents:	No information available
Partition Coefficient (n-octanol/water):	No information available
Viscosity at 25 °C:	250±50 mPa·s

10 Stability and reactivity

Possibility of Hazardous Reactions:

Contact with light may cause product to violently solidify, giving off intense heat and irritating gas.

Chemical Stability: Stable at ambient temperature and under normal conditions of storage and use.

Conditions to Avoid: Protect from sunlight, heat, and sources of ignition.

Incompatible Materials: Oxidising agents, acids, bases, and illuminants.

Hazardous Decomposition Products: Oxides of carbon.

11 Toxicological information

Toxicity:					
LD50/LC5	0 Values:				
CAS: 130	48-33-4 He	examethylene diacrylate			
Oral	LD50	>5,000 mg/kg (rat)			
	LD50	>3,000 mg/kg (rab)			
CAS: 134	63-67-7 Tit	tanium dioxide			
Oral	LD50	>20,000 mg/kg (rat)			
	LD50	>10,000 mg/kg (rabbit)			
Inhalation	LC50/4 h	6,082 mg/l (rat)			

Acute Health Effects

Inhalation: May cause respiratory irritation.

Skin: Causes skin irritation. May cause an allergic reaction. May cause redness.

Eye: Causes serious eye irritation. May cause tearing and redness.

Ingestion: May cause gastrointestinal irritation.

Skin Corrosion / Irritation: Causes skin irritation.

Serious Eye Damage / Irritation: Causes serious eye irritation.

Respiratory or Skin Sensitisation: May cause an allergic skin reaction.

Germ Cell Mutagenicity: Based on classification principles, the classification criteria are not met.

Page 5/6

Safety Data Sheet

in accordance with EPA and WORKSAFE regulations

Printing date 11.02.2022

Revision: 11.02.2022

Product Name: PLA eResin Liquid in Filament

(Contd. of page 4)

Carcinogenicity: Titanium dioxide is classified by IARC as Group 2B - Possibly carcinogenic to humans.

Reproductive Toxicity: Based on classification principles, the classification criteria are not met.

Specific Target Organ Toxicity (STOT) - Single Exposure: Based on classification principles, the classification criteria are not met.

Specific Target Organ Toxicity (STOT) - Repeated Exposure: Based on classification principles, the classification criteria are not met.

Aspiration Hazard: Based on classification principles, the classification criteria are not met.

Chronic Health Effects: No information available

Existing Conditions Aggravated by Exposure: No information available

12 Ecological information

Ecotoxicity:

Aquatic toxicity:

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

CAS: 13463-67-7 Titanium dioxide

EC50/48 h >100 mg/l (daphnia)

EC50/72 h >10,000 mg/l (skeletonema costatum)

LC50/96 h >1,000 mg/l (fish)

>100 mg/l (rainbow trout)

Persistence and Degradability: No data available on finished product.

Bioaccumulative Potential: No data available on finished product.

Mobility in Soil: No data available on finished product.

Other adverse effects: No further relevant information available.

13 Disposal considerations

Disposal Methods and Containers: Dispose according to applicable local and state government regulations.

Special Precautions for Landfill or Incineration:

Please consult your state Land Waste Management Authority for more information.

14 Transport information

UN Number	Not regulated
-----------	---------------

Proper Shipping Name Not regulated

Dangerous Goods Class Not regulated

Packing Group: Not regulated

15 Regulatory information

HSNO Approval Code / Group Standard:

HSNO Approval Code HSR002644: Polymers (Subsidiary Hazard) Group Standard 2020.

Safety Data Sheet

in accordance with EPA and WORKSAFE regulations

Printing date 11.02.2022

Product Name: PLA eResin Liquid in Filament

New Zealand Inventory of Chemicals

All ingredients are listed.

16 Other information

Date of Preparation or Last Revision: 11.02.2022

Prepared by: MSDS.COM.AU Pty Ltd

www.msds.com.au

Abbreviations and acronyms:

GHS: Globally Harmonised System of Classification and Labelling of Chemicals CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent IARC: International Agency for Research on Cancer STEL: Short Term Exposure Limit TWA: Time Weighted Average WES: Workplace Exposure Standard Skin Corrosion/Irritation 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A Skin Sensitisation 1: Skin sensitisation, Hazard Category 1

Disclaimer

This SDS is prepared in accord with the New Zealand Chemical Industry Council document 'Code of Practice (No. HSNO CoP 8-1 09-06)' and Hazardous Substances (Safety Data Sheets) Notice 2020.

The information contained in this safety data sheet is provided in good faith and is believed to be accurate at the date of issuance. Electus Distribution makes no representation of the accuracy or comprehensiveness of the information and to the full extent allowed by law excludes all liability for any loss or damage related to the supply or use of the information in this material safety data sheet. MSDS.COM.AU Pty Ltd is not in a position to warrant the accuracy of the data herein. The user is cautioned to make their own determinations as to the suitability of the information provided to the particular circumstances in which the product is used.

Revision: 11.02.2022

(Contd. of page 5)