

Complies with approved code of practice: chemical (hazard information and packaging for supply) regulations 2002 (UK) and European 67/548/EEC, 1999/45/EC format, Australian NOHSC: 1008 , 10005(1999), 2011(2003), 1003(1995), Australian dangerous goods code 7_{th} edition, and 2001/58/E, ANSI standard Z400.1 and U.S. Federal OSHA hazard communication, reach EC 1907/2006

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Name of Product	PlasCLEAR
Recommended intended use	For use in the Freeform Pico 3D printer
Manufacturer/distributor	Asiga 155 North Riverview Drive Suite #100 Anaheim Hills CA 92808
Advice	US TOLL FREE +1 877-689 99 98
Emergency Advice	Chemtrec 800 424 9300

2. COMPOSITION INFORMATION

Hazardous ingredients

CAS No	EC No	Name	% Weight	Classification
72869-86-4	276-957-5	7,7,9-(bzw. 7,9,9)Trimethyl-4, 13-dioxo-3, 14-dioxa-5, 12-diaza-hexadecan-1, 16-diol-dimethacrylat	10 - 25	R 52/53
2455-24-5		Tetrahydrofurfuryl-2-methacrylat	10 – 20	Xi

3. HAZARDS IDENTIFICATION

Classification

Xi; R36/37/38
R53/53

R-phrases

36/37/38
52/53

Irritating to eyes, respiratory system and skin.
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

4. FIRST AID MEASURES

In case of inhalation	Move affected person to fresh air. If respiratory irritation occurs, if breathing becomes difficult seek medical attention immediately.
In case of skin contact	In case of contact with skin, wash off with soap and water. Consult a doctor if skin irritation persists.
In case of eye contact	In case of contact with eyes, rinse with plenty of water carefully. In the event of persistent symptoms seek medical treatment.
In case of ingestion	If swallowed by mistake drink plenty of water and seek medical treatment.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	Foam, Dry Powder or Carbon dioxide.
Extinguishing media which must not be used	Full water jet.
Special protective equipment for fire-fighters	Use breathing apparatus with independent air supply.
Additional Information	Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective clothing. Keep away sources of ignition.
Environmental precautions	Do not discharge into the drains/surface waters/ground waters
Methods for cleaning up	Take up with absorbent material. E.g. diatomaceous earth
Additional Information	Information for disposal see chapter 13

7. HANDLING AND STORAGE

Advice on protection against fire and explosion Keep away sources of ignition.
Further information on storage conditions Keep container tightly closed. Store at 5 to 40°C (=41 to 104°F).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory protection not applicable.
Hand protection Synthetic rubber gloves.
Eye protection Safety goggles with side protection.
General protective measures Avoid contact with eyes and skin.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	white	Physical state	Liquid
Odor	characteristic	Flash point	> 150°C
Ignition temperature	not determined	Auto-ignition	not determined
Viscosity 1 dynamic	ca. 400 mPa*s	Solubility in water	insoluble
Solubility / Other	soluble in most organic solvents		

10. STABILITY AND REACTIVITY

Condition to avoid Reactions with light – risk of polymerization
Materials to avoid Reactions with peroxides and other radical components.
Additional information if unstable product polymerization is possible.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity / Irritability / Sensitization

	Value / Validation	Species	Method	Remark
LD 50 acute oral	> 2000 mg/kg	Rat	OECD 401	Information concerns the main component
Irritability skin	Non-irritant	Rabbit	OECD 404	
Irritability eye	Non-irritant	Rabbit eye	OECD 405	

12. ECOLOGICAL INFORMATION

Biological degradability not readily degradable
Eco-toxicological effects on fish not determined.
Behavior in sewage plant Obtain approval of the relevant authorities before discharging into sewage treatment plants.
General Regulation Do not allow uncontrolled leakage of product into the environment. Product is not allowed to be discharged into the ground water or aquatic environment.

13. ECOLOGICAL INFORMATION

Waste Code No 07 02 08* **Name of waste** other still bottoms and reaction residues
 *Wastes marked with an asterisk are considered to be hazardous waste pursuant to Directive 91/689/EEC on hazardous waste.
Recommendation for the product Remove in accordance with local official regulations. Dispose of as hazardous waste.
Recommendation for packaging Contaminated packaging should be emptied as much as possible and after appropriate cleansing may be taken for reuse. Packaging that cannot be cleaned should be disposed of like the product..

14. TRANSPORT INFORMATION

International Air Transport Association	Not regulated as a dangerous good
International Maritime Dangerous Goods	Not regulated as a hazardous material
European Agreement of Dangerous Goods by Road/Rail	Not regulated as a hazardous material

15. REGULATORY INFORMATION

Classification

Xi Irritant

R-phrases

36/37/38 Irritating to eyes, respiratory system and skin.
52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

S-phrases

24/25 Avoid contact with skin and eyes.
36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
46 If swallowed, seek medical advice immediately and show this container of label.
7 Keep container tightly closed

16. OTHER INFORMATION

Further Information

The information contained herein is based on the state of our knowledge. It characterizes the product with regards to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

Wording of the R-phrases specified in chapter 3 (not the classification of the formulation)

R 36/37/38 Irritating to eyes, respiratory system and skin.
R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.