

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<sub>th</sub> 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

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

### 2. COMPOSITION INFORMATION

**Hazardous ingredients**

<b>CAS No</b>	<b>EC No</b>	<b>Name</b>	<b>% Weight</b>	<b>Classification</b>
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

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

### 5. FIRE-FIGHTING MEASURES

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

### 6. ACCIDENTAL RELEASE MEASURES

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

<b>Appearance</b>	CLEAR	<b>Physical state</b>	Liquid
<b>Odor</b>	characteristic	<b>Flash point</b>	> 150°C
<b>Ignition temperature</b>	not determined	<b>Auto-ignition</b>	not determined
<b>Viscosity 1 dynamic</b>	ca. 400 mPa*s	<b>Solubility in water</b>	insoluble
<b>Solubility / Other</b>	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
<b>LD 50 acute oral</b>	> 2000 mg/kg	Rat	OECD 401	Information concerns the main component
<b>Irritability skin</b>	Non-irritant	Rabbit	OECD 404	
<b>Irritability eye</b>	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..

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## 14. TRANSPORT INFORMATION

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

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## 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

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## 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.