

# ABS-101

## Zhechuang Technologies Material Safety Data Sheet

I	CHEMICAL PRODUCT AND COMPANY IDENTIFICATION	IX	PHYSICAL AND CHEMICAL PROPERTIES
II	HAZARDS IDENTIFICATION	X	STABILITY AND REACTIVITY
III	COMPOSITION/INFORMATION ON INGREDIENTS	XI	TOXICOLOGICAL INFORMATION
IV	FIRST AID MEASURES	XII	ECOLOGICAL INFORMATION
V	FIRE-FIGHTING MEASURES	XIII	DISPOSAL CONSIDERATIONS
VI	ACCIDENTAL RELEASE MEASURES	XIV	TRANSPORT INFORMATION
VII	HANDLING AND STORAGE	XV	REGULATORY INFORMATION
VIII	EXPOSURE CONTROLS/PERSONAL PROTECTION	XVI	OTHER INFORMATION

### I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name : ABS-101  
 Usage : Stereolithographic component for complex tooling systems  
 Company : Ningbo Zhechuang Technologies Co., Ltd.  
 Telephone : (+86)574-63085815  
 Telefax : (+86)574-63058519  
 Postcode : 315300  
 Email : :salermanager@zj-creat.com  
 Address : No.777 Keji Road Gutang Sub-district Cixi City Zhejiang Province, China

### II. HAZARDS IDENTIFICATION

May cause sensitization by skin contact. Avoid contact with eyes, skin and clothing. Do not handle or empty in presence of flammable vapor. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling.  
 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### III. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical nature**

Mixture of acrylate oligomers and epoxy resin

**Hazardous components**

Chemical Name	Concentration[%]	Chemical Name	Concentration[%]
Acrylate Oligomers	10.0-50.0	Antimony Compounds	1.0-10.0
Epoxy Resin	10.0-80.0	Photoinitiator	1.0-10.0

### IV. FIRST AID MEASURES

Inhalation : Move to fresh air.  
                   Call a physician immediately.  
 Eye contact : Rinse immediately with plenty of water for at least 15 minutes.  
                   If eye irritation persists, consult a specialist.  
 Skin contact : Wash off immediately with soap and plenty of water.  
                   If skin irritation persists, call a physician.  
 Ingestion : Immediately give plenty of water (if possible charcoal slurry).

# ABS-101

Do not induce vomiting.  
Obtain medical attention.

## V. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Water spray. Carbon dioxide (CO <sub>2</sub> ). Foam. Dry powder.
Extinguishing media which must not be used for safety reasons	:	High volume water jet.
Special protective equipment for fire-fighters	:	Wear self-contained breathing apparatus and protective suit.
Further information	:	Burning produces obnoxious and toxic fumes. Carbon oxides.

## VI. ACCIDENTAL RELEASE MEASURES

Environmental precautions	:	Do not allow material to contaminate ground water system. Prevent product from entering drains.
Methods for cleaning up	:	Sweep up and shovel into suitable containers for disposal.

## VII. HANDLING AND STORAGE

### Handling

Advice on safe handling	:	Provide sufficient air exchange and/or exhaust in work rooms. Ensure adequate ventilation. Handle and open container with care.
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### Storage

Further information on storage conditions	:	Keep away from food, drink and animal feeding stuffs. Keep container tightly closed. Keep at temperatures between 2 and 40 °C.
Storage hazard class Huntsman Advanced Materials	:	Storage class 12, Liquids, not dangerous

## VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Antimony Compounds	:	0.5 mg/m <sup>3</sup>
Other Components	:	None Established

### Personal protective equipment

Respiratory protection	:	In case of insufficient ventilation wear suitable respiratory equipment. Filter type AX-P2 (organic vapours, particles)
Eye protection	:	Tightly fitting safety goggles. Face-shield.
Hand protection	:	Material of gloves for long term application (BTT>480 min): Butyl rubber Ethyl Vinyl Alcohol Laminate (EVAL) Material of gloves for short term/splash application: Nitrile rubber Neoprene rubber Use gloves approved to relevant standards.

# ABS-101

Skin and body protection	:	Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material and dexterity. Always seek advice from glove suppliers. Protective suit.
Protective measures	:	Safety shoes. Keep away from sources of ignition - No smoking. Avoid contact with skin, eyes and clothing.

## IX. PHYSICAL AND CHEMICAL PROPERTIES

Form	:	Liquid
Colour	:	Opaque White
Odour	:	Slight
Thermal decomposition	:	> N/A
Flash point	:	> 95 °C
Method:		PMCC
Vapour pressure	:	N/A
Density	:	1.12 g/cm <sup>3</sup> at 30 °C
Water solubility	:	Insoluble at 20 °C Note: practically insoluble Immiscible at 20 °C
Miscibility with water	:	
Viscosity, dynamic	:	> 176 mPa s at 25 °C

## X. STABILITY AND REACTIVITY

Conditions to avoid	:	Note: Take necessary action to avoid static electricity discharge.
Materials to avoid	:	Strong acids and strong bases. Strong oxidizing agents.
Hazardous decomposition products	:	Carbon oxides. Burning produces obnoxious and toxic fumes

## XI. TOXICOLOGICAL INFORMATION

Eye irritation	:	Moderate eye irritation rabbit
Skin irritation	:	Moderate skin irritation rabbit dermal
Sensitization	:	Causes sensitization. guinea pig dermal

## XII. ECOLOGICAL INFORMATION

<b>Elimination information (persistence and degradability)</b>		
Biodegradability	:	Result: Not readily biodegradable.
<b>Ecotoxicity effects</b>		
<b>Further information on ecology</b>		
Additional ecological information	:	Avoid subsoil penetration. Prevent product from entering drains. Do not contaminate surface water.

## XIII. DISPOSAL CONSIDERATIONS

Product	:	Must be incinerated, when in compliance with local regulations.
Container	:	Empty containers can be landfilled after cleaning.
Contaminated packaging	:	None Established

# ABS-101

## XIV. TRANSPORT INFORMATION

**Land transport**
*ADR:*

Regulation: Not dangerous goods

*RID:*

Regulation: Not dangerous goods

**Sea transport**
*IMDG:*

Regulation: Not dangerous goods

**Air transport**
*IATA-DGR:*

Regulation: Not dangerous goods

## XV. REGULATORY INFORMATION

**Labelling according to EEC Directive**

Labelling required

Symbol(s)	: Xi	Irritant
R-phrase(s)	: R43	May cause sensitization by skin contact.
	R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrase(s)	:S28	After contact with skin, wash immediately with plenty of soap and water.
	S37/39	Wear suitable gloves and eye/face protection.
	S61	Avoid release to the environment. Refer to special instructions/safety data sheets.
Exceptional labeling of special preparations	:	Contains epoxy constituents. See information supplied by the manufacturer.
Hazardous components which must be listed on the label	:	Antimony Compounds

**National legislation**

Water contaminating class : 2 water endangering

**Notification status**

- : EINECS yes
- The formulation contains ELINCS substances.
- : TSCA yes
- : DSL yes
- : AICS no
- : KECI (KR) no
- : ENCS (JP) no

## XVI. OTHER INFORMATION

MSDS Creation Date : 2017/07/20  
 MSDS Revision : A

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