MATERIAL SAFETY DATA SHEET

1、 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name： XS-HD

Use： Photopolymer for Stereolithographic Apparatus with DLP

Company： Jiangmen Xingsheng Precision Manufacturing Co., Ltd.

Tel： 17028327148

Email： 1050619592@qq.com

Website： www.xmicro3d.com

Address： No. 40 Jinzhou Road, Huicheng, Xinhui District, Jiangmen City, Guangdong Province,China

2、 HAZARDS IDENTIFICATION

2.1 Classification of the mixture

Classification according to Regulation(EC) NO 1272/2008

Skin irritation (Category 2), H315

Eye irritation (Category 2), H319

Skin sensitization (Category 1), H317

Aquatic Chronic (Category 2), H411

Specific target organ toxicity-single exposure (Category 3), Respiratory system, H335

2.2 Label elements

Labeling according Regulation (EC) No 1272/2008

Pictogram

Signal word Attention

Hazard statements

H315	Cause skin irritation
H317	May cause an allergic skin reaction
H319	Cause serious eye irritation
H335	May cause respiratory irritation
H411	Toxic to aquatic life with long lasting effects

Precautionary statements

P273	Avoid release to the environment
P280	Wear eye protection/face protection
P280	Wear protective gloves

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Supplemental Hazard Statements none

2.3Other hazards-none

3、 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

Mixture of acrylic oligomers and epoxy resin

Hazardous components

Chemical Name	CAS-NO.	Concentration(%)	Hazardous Substance
4-acryloylmorpholine	5117-12-4	10	No
Aliphatic Polyurethane Acrylate	-	40	No
Tris(2- hydroxyethyl)isocyanurate triacrylate	40220-08-4	20	No
Trimethylolpropane triacrylate	3290-92-4	20	No
Dipentaerythritol hexaacrylate	29570-58-9	10	No

4、 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).Do not induce vomiting.Obtain medical attention.

5、 FIRE-FIGHTING MEASURES

Suitable extinguishing media： Water spray，Carbon dioxide (CO_2)，Foam，Dry powder.

Extinguishing media whichmust not be used for safety reasons： High volume water jet.

Special protectiveequipment for fire-fighters： Wear self-contained breathing apparatus and protective suit.

Further information： Burning produces obnoxious and toxic fumes，Carbon oxides.

6、 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.

7、 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.

Storage

Further information on storage conditions：Keep away from food, drink and animal feeding stuffs.

Keep container tightly closed.
Keep at temperatures between 25 and 35 °C.

8、 EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

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.

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.

Skin and body protection: Protective suit.Safety shoes.

Protective measures: Keep away from sources of ignition - No smoking.

Avoid contact with skin, eyes and clothing.

9、 PHYSICAL AND CHEMICAL PROPERTIES

Form	Liquid
Colour	Light purple
Odour	Slight

Thermal decomposition	> 240 °C
Flash point	> 95 °C
Method:PMCC	
Vapour pressure	< 100 Pa at 20 °C
Density	1.05/cm^3 at 30 °C
Water solubilityat 20 °C	Note: practically insoluble
Miscibility with water	Immiscible at 20 °C
Viscosity, dynamic	**10**0cps at 25 °C
PH Value	3-6

10、 STABLITY 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

11、 TOXICOLOGICAL INFORMATION

Acute oral toxicity	LD50 rat
Dose	> 2,000 mg/kg
Eye irritation	Moderate eye irritation rabbit
Skin irritation	Moderate skin irritation rabbit dermal
Sensitization	Causes sensitization. guinea pig dermal

12、 ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)

Biodegradability Result: Not readily biodegradable.

Ecotoxicity effects

Further information on ecology

Additional ecological information Avoid subsoil penetration.

Prevent product from entering drains.

Do not contaminate surface water.

13、 DISPOSAL CONSIDERATIONS

Product: Must be incinerated, when in compliance with local regulations.

Container: Empty containers can be landfilled after cleaning.

Contaminated packaging None Established

14、 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

15、 REGULATORY INFORMATION

Labelling according to EEC Directive

Labelling required

Symbol(s) Xi Irritant

R-phrase(s) R43May cause sensitization by skin contact.

R52/53Harmful to aquatic organisms, may cause long-term adverse effects in the aquaticenvironment.

S-phrase(s) S28After contact with skin, wash immediately with plenty of soap and water.

S37/39Wear suitable gloves and eye/face protection.

S61Avoid release to the environment. Refer to special instructions/safety data sheets.

Exceptionallabelingofspecial preparations Contains epoxy constituents. See information supplied by the manufacturer

Hazardous components whichmust be listed on the label Na

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

16、 OTHER INFORMATION

MSDS Creation Date 2025/09/09
MSDS Revision A

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