Material Safety Data Sheet

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name **:** ProBasic CLR

Other means of identification: not available.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Printing material for 3d printers

1.3 Details of the supplier of the safety data sheet

Company: XYZprinting, Inc.

Address: No.147, Sec. 3, Beishen Rd., Shenkeng Dist., New Taipei City, Taiwan (R.O.C.)

Information Phone No.: 886-2-7705 8001

Emergency Phone No.: 886-2-7705 8001

SECTION 2: Hazards identification

EMERGENCY OVERVIEW

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]
Skin sensitization 1, H317
Skin corrosion/irritation 2, H315
Eye damage/eye irritation 1, H318
Acute toxicity, oral and inhalation 5, H304+H334
Reproductive toxicity 2, H361
Specific target organ toxicity - repeated exposure 2, H373
Hazardous to the aquatic environment, chronic toxicity 3, H412

2.2 Label elements

Hazard pictograms:

Signal word **:** Danger

Hazard statements: H315- Causes skin irritation

H317- May cause an allergic skin reaction

H318- Causes serious eye damage

H304+H334- May be harmful if swallowed or in contact with skin

H361- Suspected of damaging fertility

H373- May cause damage to organs (state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)

H412- Harmful to aquatic life with long lasting effects

Precautionary statements

P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P260 - Do not breathe dust/fume/gas/mist/vapors/spray.

P261- Avoid breathing dust/fume/gas/mist/vapors/spray.

P264- Wash contact place thoroughly after handling

P272- Contaminated work clothing should not be allowed out of the workplace

P273- Avoid release to environment

P280- Wear protective gloves/protective clothing/eye protection/face protection

P302+P352- IF ON SKIN: Wash with plenty of soap and water.

P305+351+P338- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lense, if present and easy to do. Continue rinsing.

P308+P313- IF exposed or concerned: Get medical advice/attention.

P332+P313 - If skin irritation occurs: Get medical advice/attention.

P310 - Immediately call a POISON CENTER or doctor/physician.

P314 - Get medical advice/attention if you feel unwell.

P321- Specific treatment (see on this label)

P333+P313- If skin irritation or rash occurs: Get medical advice/attention.

P362+P364- Take off contaminated clothing and wash before reuse.

P405- Stored locked up

P501- Dispose of contents/container in accordance with local/regional/national/international regulations

Disposal

Dispose of contents and container in accordance with all local, regional, national and international regulations.

SECTION 3: Composition/information on ingredients

3.1 Chemical characterization: Mixtures

Identification name	CAS No./EC No.	Hazard Statements	Weight % content (or range)
Urethane methylacrylate	Proprietary	H317	5~40%
Epoxy acrylate	Proprietary	H315, H319	30~70%
Acrylated monomer	Proprietary	H317, H315, H319	5~30%
Acrylated monomer	Proprietary	H315, H317, H318	5~30%
Acrylated monomer	Proprietary	H302, H317, H318, H373	5~30%

Acrylated monomer	Proprietary	H319, H411	5~30%
Photoinitiator(s)	Proprietary	H317, H361, H411	0.5-7%
Addictive(s)	Proprietary	None	0.01-0.2%

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact:

Immediately wash eyes with plenty of running water for at least 15 minutes minimum. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. Occasionally lift the upper and lower eyelids. Seek medical advice if irritation develops and persists.

Inhalation:

Remove to fresh air. If breathing is difficult, give oxygen. Obtain medical advice if there are.

Skin contact:

Wash affected skin area with plenty of water and soap for at least 15 minutes while removing contaminated clothing and shoes. Seek medical advice if irritation develops and persists.

Ingestion :

If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician.

The most important symptoms and hazardous effects:

Harmful in contact with skin and causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation.

Section 5: Fire-Fighting Measures

5.1 Extinguishing media

Suitable extinguishing media : Use dry chemical, CO_2, water spray (fog) or foam.

Unsuitable extinguishing media: Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture:

High temperatures, inhibitor depletion, accidental impurities, or exposure to radiation or oxidizers may cause spontaneous polymerizing reaction generating heat/pressure. Closed containers may rupture or explode during runaway polymerization. Harmful vapors evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

5.3 Advice for firefighters

Special protective actions for fire-fighters:

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear proper protective equipment. Do not get in eyes, on skin, or on clothing. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Do not breathe vapor, mist or spray.

6.2 Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and materials for containment and cleaning up

Small spill:

Stop leak if without risk. Move containers from spill area. Absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill:

Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

Section 7: Handling & Storage Measures

7.1 Precautions for safe handling

Protective measures:

Put on appropriate personal protective equipment (see Section 8). Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source.

7.2 Conditions for safe storage, including any incompatibilities

Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, , in opaque or amber containers. Store at 10~32℃(50~95° F). Keep container closed. Avoid ignition sources.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

8.1 Control parameters

Component	TWA*	STEL*	CEILING*	BEIs*
Urethane methylacrylate	N/DA	N/DA	N/DA	N/DA
Epoxy acrylate	N/DA	N/DA	N/DA	N/DA
Acrylated monomer	N/DA	N/DA	N/DA	N/DA

Photoinitiator(s)	N/DA	N/DA	N/DA	N/DA
Addictive(s)	N/DA	N/DA	N/DA	N/DA

*TWA - 8 hours time weighted average exposure limits

*STEL - Short-term exposure limits

*CEILING - Maximum exposure limits

*BEIs - Biological standards

Exposure controls

Respiratory protection:
If this material is handled at elevated temperature or under mist forming conditions, NIOSH/MSHA approved respiratory protection equipment should be used.

Individual protection measures

Eye/face protection:
Eye protection such as chemical splash goggles and/or face shield must be worn when possibility exists for eye contact due to splashing or spraying liquid, airborne particles, or vapor. Contact lenses should not be worn.

Skin protection

Hand protection:
Latex or rubber. Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Other skin protection:
Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Environmental exposure controls:
Keep product from waterways and watersheds. This substance is not readily biodegradable and is dangerous for the environment. Avoid release into the environment.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance

Physical state	:	Liquid
Color	:	Clear
Odor	:	Ester
pH value	:	No data
Melting Point/Freeze Point	:	No data
Boiling Point	:	No data
Flash Point	:	> 100°C Test Method: Closed cup

Density	**:** 1.1~1.2 g/cm3
Viscosity	**:** 420~620cps
Solubility	**:** Insoluble in water

Section 10: Stability & Reactivity

10.1 Reactivity:

No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability:

Stable on normal condition.

10.3 Possible hazardous reactions occurring under specific conditions:

Polymerization.

10.4 Conditions to avoid:

Keep the product away from heat, flame, spark and other ignition. Avoid direct sunlight and UV light.

10.5 Materials to avoid:

Strong oxidizer,alkaline, strong acids or reactive metal to prevent exothermic polymerization.

10.6 Hazardous decomposition products:

Carbon dioxide

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Routes of exposure:

Skin, inhalation, ingestion, eyes

Component:

Urethane methylacrylate:	No data. May cause sensitization by contact skin
Epoxy acrylate:	No data. Irritating to eyes and skin
Acrylated monomer:	Irritating to eyes and skin
Photoinitiator(s):	Acute oral toxicity, LD50: >5000mg/kg(rat)
	Acute dermal toxicity,LD50: >2000mg/kg(rat)

SECTION 12: Ecological information

12.1 Toxicity

Conclusion/Summary: Not available

12.2 Persistence and degradability: Not applicable

12.3 Bio-accumulative potential: Not applicable

12.4 Inhibition of microbial activity: Not applicable

12.5 Adsorption coefficient: Not applicable

12.6 Results of PBT and vPvB assessment: No available

12.7 Other adverse effects: No known significant effects or critical hazards.

SECTION 13: Disposal considerations

Dispose of contents/container in accordance with local and national regulations.

SECTION 14: Transport Information

United nations number (UN No.)	Not regulated
UN Proper shipping name	Not regulated
Transport hazard class	Not regulated
AIR (IATA)	Not regulated
Packing group number	Not applicable
Marine pollutant(Yes/No)	No
Specific transport measures and precautionary conditions	Not applicable

SECTION 15: Regulatory information

Inventory Information:

USA(TSCA): All materials are listed

SECTION 16: Other information

SDS prepared by

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Legal disclaimer:

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