

1. Chemical Product and Company Identification

Trade Name	:	ProtoFab™
Manufacturer	:	Vistar (Xiamen) Industries CO., Ltd
		899, Maqing Road, Haicang District, Xiamen, China 361026
		Tel: 86-592-3862946
Chemical Family	:	Epoxy, acrylate, photoinitiator
CAS Number	:	Trade secret
Emergency Tel	:	86-592-3862946

2. Composition, Information on Ingredients

Composition	CAS #	% by weight
Epoxy Resin		10-70
Acrylate		10-30
Photoinitiator		1-10

3. Physical Data

(1)Color	:	white
(2)Physical State and Appearance	:	Liquid
(3)Water Solubility	:	Slightly Soluble
(4)Viscosity	:	593 cps (25°C)
(5)Vapor Pressure	:	Not determined
(6)Liquid density	:	1.12 g/cm3 (25°C)

4. Fire Fighting Measures	
Extinguishing Media :	Dry powder fire extinguishing agent, alcohol-resistant foam extinguishing agent, carbon dioxide, dry sand and water spray.



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Special Fire-fighting Procedures	:	Fire fighters should wear positive pressure self-contained breathing
		apparatus(SCBA) and full turnout gear.
Unusual Fire/Explosion Hazards	:	In case of fire toxic fumes might be formed. In case of fire and/or
		explosion, do not breathe fumes. Containers may rupture from
		pressure build-up.
Protection of Fire-fighters	:	While putting out the fire in the windward place, firemen should
		wear protective devices (goggles, protective clothing, gas mask
		etc.)
Autoignition Temperature	:	Not determined.
Lower Explosion Limit	:	Not determined.

5. Health Hazards		
Target Organs	:	Skin, eyes and respiratory tract
Effects and Symptoms		
- Skin Contact	:	Avoid prolonged or repeated contact with skin. MAY CAUSE
		SKIN IRRITATION. May cause skin sensitization. Skin inflammation
		is characterized by itching, scaling, reddening, or, occasionally,
		blistering.
- Eye Contact	:	May cause eye irritation. Inflammation of the eye is characterized
		by redness, watering, and itching.
- Inhalation	:	May cause irritation of respiratory tract, coughing, shortness of
		breath. Vapors and aerosol can produce mucous membrane, nose
		and throat irritation.
- Ingestion	:	May cause mild gastric irritation, abdominal spasms, nausea and
		faintness.
First Aid Measures		
- Skin Contact	:	After contact with skin, wash immediately with plenty of water.
		Wash gently and thoroughly the contaminated skin with running Version 1 2



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		water and non-abrasive soap.
- Eye Contact	:	Check for and remove any contact lenses. In case of contact,
		immediately flush eyes with plenty of water for at least 15 minutes.
		Get medical attention
- Inhalation	:	Remove victim from area of exposure if possible. Allow the victim to
		rest in a well-ventilated area. Seek immediate medical attention.
- Ingestion	:	Do not induce vomiting unless directed by a physician. Never give
		anything by mouth to an unconscious person. If large quantities of
		this material are swallowed, call a physician immediately. Loosen
		tight clothing such as a collar, tie, belt or waistband. If vomiting
		occurs, keep head lower than hips to help prevent aspiration.

6. Reactivity Data		
Stability	:	High temperature triggers reaction.
Possibilities of Dangerous and	:	Drastic reaction with strong oxidant and alkali.
Adverse Reaction		Reaction occurs with drastic heat emission after mass hardening.
		Harmful gas may be produced during drastic hardening and lead to
		the carbonization and decomposition of reactant.
Incompatibility, Conditions	:	Keep away from direct sunlight, strong incandescent light and heat
and Materials to Avoid		May react or be incompatible with oxidant and alkali.
Dangerous Decomposition Products	:	Hazardous gas (carbon monoxide and hydrocarbon) may be
		produced under different combustion conditions.

7. Spill and Disposal Considerations

Small Spill and Leak	1	Wear approp	Wear appropriate protective clothing to prevent skin contact. Wear				
		appropriate	respirator	when	ventilation	is	inadequate. Avoid
		breathing va	apors of this	produc	t. Avoid con	itact	with skin and eyes.



		Avoid all possible sources of ignition (spark or flame). Keep
		unnecessary people away from spill area. Clean up spills
		immediately. Absorb with liquid-binding material (sand, diatomite,
		universal binders, or spill kit. Place in suitable clean, dry containers
		for disposal by approved methods.
Large Spill and Leak	:	Do not clean-up or dispose except under supervision of a specialist.
		Eliminate all ignition sources. For large spills dike spilled material or
		otherwise contain material to ensure runoff does not reach a
		waterway. Keep unnecessary people away from spill area. Follow
		company spill response procedures. Wear protective eyeglasses or
		chemical safety goggles and face protection. Contact lenses are not
		protection devices. Appropriate eye protection must be worn
		instead of, or in conjunction with contact lenses. Wear
		MSHA/NIOSH approved self-contained breathing apparatus or
		equivalent and full protective gear. Wear appropriate protective
		clothing to prevent skin contact. Place spilled material in an
		appropriate container for disposal. Dispose of according to all
		federal, state and local applicable regulations.
Waste Disposal	:	This material and its container must be disposed of in a safe way.

8. Personal Protection

Respiratory system	: Wear appropriate respirator when ventilation is inadequate.	
Ventilation	: Good general ventilation should be sufficient to control airbo	orne
	levels.	
Skin Contact	: Gloves, chemical resistant (nitrile). lab coat. Version 1 4	

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Waste must be disposed of in accordance with federal state and

local environmental control regulations. Do not allow product to

reach sewage system /surface or ground water.



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Eyes

Other Special Considerations

Safety glasses with side shields.

Wear nitrile or other chemical resistant gloves to avoid skin contact when handling partially cured fabricated objects in the "green" state of cure (after initial laser cure). Expose freshly cut surfaces to light in order to complete the surface cure. When sanding fully cured surfaces, suitable respiratory protection for dust should be used. The object may be handled without gloves after the object has been properly treated to prevent skin contact with liquid photopolymer. Uncured liquid photopolymer can also be removed from the object in the partially cured green state by thoroughly washing the object with Tripropylene glycol monomethyl ether followed by post exposure to UV light and/or an oven bake at temperatures above 130°C.

9. Handling and Storage Precautions

Precautions to be Taken in	:	Keep away from heat. Keep away from sources of ignition. Empty
Handling and Storage		containers retain product residue and can be hazardous. Do not
		breathe gas/fumes/vapor/ spray. Keep away from incompatibles
		such as oxidizing agents. After handling, always wash hands
		thoroughly with soap and water. Wear appropriate protective
		clothing to prevent skin contact. Avoid contact with eyes, skin and
		clothing.
Handling	:	Avoid breathing vapors or spray mists. Use only with adequate
		ventilation. Avoid contact with spilled materials and avoid runoff with
		soil and surface waterways. Keep container closed. Store in a cool
		place.

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10. Toxicological Information

Routes of Entry	Skin, eyes and respiratory tract.
Chronic Effects	Not available.
on Humans	Remarks: Any information in this section is for component(s) contained in this
	product.
Acute Effects	May cause skin, eye and respiratory irritation. Avoid prolonged or repeated contact with
on Humans	skin. May cause skin sensitization.
	Remarks: Any information in this section is for component(s) contained in this
	product.
	Eating, drinking and smoking should be prohibited in area where this material is handled,
	stored and processed. Workers should wash hands and face before eating, drinking and
	smoking.

Other Information	:	
HISTORY		
Date of Issue	:	25 / 9 / 2019
Version	:	1

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material in any specific system process. Although certain hazards are described herein, these can not be

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This data sheet may be modified according to the latest assessment and testing.