1. Chemical Product and Company Identification

1.1	**Product Name:**	JC-UV Series
1.2	**Manufacturer's Product Code:**	JC-UV100/150/200/300
1.3	**Hazardous Chemical Classification:**	Non-hazardous material
1.4	**Dangerous Goods Classification:**	

2. Composition / Information on Ingredients

2.1	**Chemical Nature:**	Mixture
2.2	**Physical State:**	Liquid
2.3	**Color:**	Transparent or slightly pale yellow
2.4	**Main Use:**	Typically used for encapsulation and protection of PCBAs and component-free circuit areas.
2.5	**Hazardous Components:**	None

Chemical Name	CAS No.	% (w/w)	Symbol & Health Hazard Terms
Polyurethane acrylate	-	35-50%	
Isobornyl acrylate	5888-33-5	10-15%	
Tetrahydrofurfuryl acrylate	2399-48-6	10-15%	
Additives	-	1-5%	
Photoinitiator	947-19-3	1-10%	
Photoinitiator	-	1-4%	
Fluorescent powder	-	0.5-1%	

3. Hazards Identification

3.1	**Hazard Category:**	Not hazardous.
3.2	**Hazard Information:**	Irritating to the skin, eyes and respiratory tract. May be harmful if swallowed. Avoid contact with skin and eyes. Use only in well-ventilated areas.
3.3	**Routes of Exposure:**	Skin contact, inhalation and accidental ingestion.
3.4	**Health Hazards:**	
	Acute Effects	
	Eyes:	Direct contact may cause irritation.
	Skin:	Contact with uncured product may irritate the lips, gums and tongue. Contact with uncured product may irritate the skin.
	Inhalation:	Slightly irritating to the respiratory system.

	Ingestion:	Harmful if swallowed.
	Chronic Effects	
	Skin:	No relevant data available.
	Inhalation:	No relevant data available.
	Ingestion:	Repeated ingestion or swallowing may cause internal injury.
3.5	**Effects and Symptoms of Overexposure:**	Under normal conditions of use, a single exposure does not cause harmful effects.
	Note:	This product does not release volatile gases; the main route of entry is ingestion. No special protection is generally required. A self-priming filter-type respirator may be worn when handling high concentrations.

4. First Aid Measures

4.1	**Eyes:**	Immediately flush with plenty of water for at least 15 minutes. If irritation persists, seek medical attention.
4.2	**Skin:**	Wipe off the skin with a dry cloth or paper towel, then wash thoroughly with soap and water or a waterless hand cleaner. If irritation or other symptoms develop and persist, seek medical attention.
4.3	**Inhalation:**	Move to fresh air. If breathing has stopped, give artificial respiration using a barrier device. If breathing is difficult, give oxygen. Seek medical attention.
4.4	**Ingestion:**	Do not induce vomiting. Slowly dilute with 1–2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person.
4.5	**Notes:**	Treat according to the patient's condition and the specific exposure.
4.6	**Note to Physician:**	Treat symptomatically.

5. Fire-Fighting Measures

5.1	**Flammability:**	Non-flammable.
5.2	**Flash Point:**	Not applicable.
5.3	**Auto-ignition Temperature:**	Not determined.
5.4	**Upper Explosive Limit:**	Not determined.
5.5	**Lower Explosive Limit:**	Not determined.
5.6	**Hazardous Characteristics:**	None.
5.7	**Extinguishing Media:**	For large fires, use dry chemical, foam or water. For small fires, use carbon dioxide, dry chemical or water. Water may be used to cool containers exposed to fire.
5.8	**Special Fire-Fighting Procedures and Equipment:**	When fighting large fires involving chemicals, wear self-contained breathing apparatus and protective clothing. Decide whether to evacuate or isolate the area according to the situation. Cool fire-exposed containers with water. Carbon monoxide, carbon dioxide and trace amounts of incompletely burned carbon compounds. Silicon dioxide, metal oxides.
5.9	**Hazardous Combustion Products:**	Not determined.
5.10	**Prohibited Extinguishing Media:**	Not determined.

6. Accidental Release Measures

6.1	**Personal Precautions:**	Avoid contact with skin and eyes. Do not ingest.
6.2	**Environmental Precautions:**	Do not allow large quantities to enter drains or waterways.
6.3	**Clean-up Methods:**	Follow all personal protective equipment recommendations listed in this safety data sheet. Wipe, scrape or absorb with inert material and place in containers for recovery or disposal. Clean the spill area appropriately.

7. Handling and Storage

7.1	**Handling Precautions:**	Provide ventilation and exhaust equipment during use to keep exposure within standard limits, or use respiratory protection. Avoid contact with skin and eyes. Practice good industrial hygiene; wash after handling, especially before eating or smoking. Remove all sealant from fingertips, nails and cuticles before touching the eyes. Residual sealant may remain on the fingers for several days and can be transferred to the eyes, causing severe eye irritation. Do not ingest. Keep away from children. Handle with care; store away from oxidizing materials.
7.2	**Storage Precautions:**	Not determined.
7.3	**Unsuitable Packaging Materials:**	

8. Exposure Controls / Personal Protection

8.1	**Engineering Controls:**	
	Local Exhaust Ventilation:	Not required.
	General Ventilation:	Recommended.
8.2	**PPE for Routine Operations:**	
	Respiratory Protection:	If exposure limits are exceeded or respiratory irritation is experienced, wear NIOSH/MSHA-approved respiratory protection. Supplied-air respirators are required for non-routine or emergency situations. Respiratory protection must be provided in accordance with OSHA regulations.
	Eye Protection:	Use appropriate protection – safety glasses are the minimum requirement.
	Hand Protection:	Wear chemical-resistant gloves or cloth gloves.
	Skin Protection:	Wash before eating and at the end of the shift. Remove contaminated clothing and shoes as soon as possible and clean thoroughly before reuse; chemical-resistant gloves are recommended.
	Personal Hygiene:	Practice good industrial hygiene; wash after handling, especially before eating or smoking.
8.3	**PPE for Spills:**	
	Respiratory Protection:	If exposure limits are exceeded or respiratory irritation is experienced, wear NIOSH/MSHA-approved respiratory protection. Supplied-air respirators are required for non-routine or emergency situations.
	Eye Protection:	Use appropriate protection – safety glasses are the minimum requirement.
	Skin Protection:	Wash before eating and at the end of the shift. Remove contaminated clothing and shoes as soon as possible and clean thoroughly before reuse; chemical-resistant gloves are recommended.
	Precautionary Measures:	Avoid contact with skin and eyes. Do not ingest. Take appropriate protective measures.

Notes:	Provide ventilation and exhaust equipment during use to keep air quality within standard limits, or use respiratory protection.

Remarks: The above handling precautions are based on operating conditions at normal temperature and pressure. If the product is used at elevated temperatures or in spray form, special precautions must be followed.

9. Physical and Chemical Properties

9.1	**Physical State:**	Liquid
9.2	**Color:**	Transparent or slightly pale yellow, black
9.3	**Odor:**	Slight odor before curing; odorless after curing.
9.4	**pH:**	Not determined.
9.5	**Solubility:**	Insoluble in water; soluble in a few organic solvents.
9.6	**Boiling Point:**	Not determined.
9.7	**Melting Point:**	Not determined.
9.8	**Flash Point:**	Not applicable.
9.9	**Auto-ignition Temperature:**	Not determined.
9.10	**Explosive Properties:**	No
9.11	**Oxidizing Properties:**	No
9.12	**Vapor Pressure (25 °C):**	Not determined.
9.13	**Specific Gravity:**	1.0 ± 0.1
9.14	**n-Octanol/Water Partition Coefficient:**	Not determined.
9.15	**Relative Vapor Density (Air = 1):**	Not determined.
9.16	**Viscosity:**	Not determined.
9.17	**Molecular Weight:**	Not determined.

10. Stability and Reactivity

10.1	**Stability:**	Stable.
10.2	**Reactivity:**	
	Conditions to Avoid:	None.
	Incompatible Materials:	Oxidizing agents may initiate a reaction.
	Decomposition Products:	Carbon monoxide, carbon dioxide and trace amounts of incompletely burned carbon compounds.
	Hazardous Polymerization:	Hazardous polymerization will not occur.

11. Toxicological Information

11.1	**Health Hazards:**	Direct contact may cause irritation.
11.2	**Sensitization:**	Unknown.
11.3	**Mutagenicity:**	Unknown.
11.4	**Reproductive Toxicity:**	Unknown.
11.5	**Carcinogenicity:**	Unknown.
11.6	**Other Health Hazard Information:**	No relevant data available.

12. Ecological Information

12.1	**Environmental Fate and Distribution:**	Solid material; insoluble in water. No adverse effects are predicted.
12.2	**Environmental Effects:**	No adverse effects on aquatic organisms are predicted.
	Bioaccumulation:	No bioaccumulation potential.
12.3	**Effects on Wastewater Treatment Plants:**	No adverse effects on bacteria are predicted.

13. Disposal Considerations

13.1	**Product Waste Disposal:**	Dispose of in accordance with local regulations.
13.2	**Packaging Waste Disposal:**	Dispose of in accordance with local regulations.

14. Transport Information

14.1	**Road and Rail Transport:**	Not yet evaluated.
14.2	**Sea Transport (IMO):**	Not subject to the IMDG Code.
14.3	**Air Transport (ICAO):**	Not subject to ICAO regulations.

15. Regulatory Information

15.1	**Applicable Regulations:**	Regulations on the Safe Use of Chemicals in the Workplace [(1996) Ministry of Labour Document No. 423], which set out requirements for the safe use, production, storage, transport, loading and unloading of hazardous chemicals.

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