中国广州分析测试中心
CHINA NATIONAL ANALYTICAL CENTER, GUANGZHOU

No.: 2016002306 b

Material Safety Data Sheet

Sample Name: UV Curing Acrylic Resin

Effective Date: 2016-3-31

Compiler:

Checker:

Approver:

中国广州分析测试中心 检测报告专用章 (2)

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UV Curing Acrylic Resin

1. Chemical Product and Manufacturer Identification

Product name	UV Curing Acrylic Resin		
Article number	Not applicable	**CAS No.**	Not applicable
Molecular formula	Not applicable	**Molecular mass**	Not applicable
Manufacturer/Supplier			
Address			
Telephone		**Fax.**	
Email		**Post code**	
MSDS No.	2016002306 b	**Effective date**	March 31, 2016
Emergency phone		**Contact person**	

2. Hazards Identification

GHS Hazard Class	Acute toxicity, Oral (Category 5); Skin irritation (Category 2); Eye irritation (Category 2A); Skin sensitization (Category 1).
Pictogram and signal word	 **Warning**
Hazard statement	H303 May be harmful if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction.
Precautionary statement(s)	P261 Avoid breathing mist/vapours/spray. P280 Wear protective eye protection/face protection/gloves. P362 + P364 Take off contaminated clothing and wash it before reuse. P272 Contaminated work clothing should not be allowed out of the workplace。 P312 Call a POISON CENTER/doctor, if you feel unwell. P302 + P352 IF ON SKIN: Wash with plenty water. P333 + P313 If skin irritation or rash occurs: Get medical advice/attention. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 If eye irritation persists: Get medical advice/attention.
Explosion hazards	Not considered to be an explosion hazard.

3. Composition/Information on Ingredients

Component	Range % by Wt.	CAS No.
Urethane acrylate	50~60	Not applicable.
2-Hydroxyethyl methacrylate	30~35	868-77-9
Photochemical (2-Hydroxy-2-methylpropiophenon)	1~5	7473-98-5

4. First Aid Measures

Skin contact	Rinse with plenty water. If experiencing skin symptoms, consult a physician.
Eye contact	Rinse opened eyes cautiously with water for several minutes. If experiencing eye symptoms, consult a physician.
Inhalation	Remove person to fresh air and keep comfortable for beathing. If experiencing respiratory symptoms, consult a physician.
Ingestion	Induce vomitting and rinse the mouth with water. If feel unwell, consult a physician.

5. Fire Fighting Measures

Types of hazard	Fire hazard when exposed to heat or flame.
Hazardous combustion products	Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.
Fire-fighting measures	Use any means suitable for extinguishing surrounding fire.
Special Information	No information found.

6. Accidental Release Measures

Soak up with inert absorbent material and recover the leakage into the suitable, closed containers for disposal. Avoid the leakage enter the drains.

7. Handling and Storage Measures

Handling	Keep container tightly closed. Wash thoroughly after handling.
Storage	Stored in a cool, dry, ventilated area.

8. Exposure Controls / Personal Protection

Occupational exposure limits	None established.
Engineering controls	In general, dilution ventilation is a satisfactory health hazard control for this substance. However, if conditions of use create discomfort to the worker, a local exhaust system should be considered.
Inhalation protection	In fire situations, use self-contained breathing apparatus.
Eye protection	Use chemical safety goggles or mask. Maintain eye wash fountain and quick-drench facilities in work area.
Skin protection	Wear protective gloves and clean body-covering clothing.
Other protection	No information found.

9. Chemical and Physical Properties

Appearance and odor	Colorless mucus, weak odor.	**pH**	No information.
Melting point (℃)	No information.	**Boiling point (℃)**	No information.
Density(water=1)	No information.	**Relative vapour density (air=1)**	No information.
Vapour pressure (kPa)	No information.	**Heat of combustion (kJ/mol)**	No information.
Critical temperature (℃)	No information.	**Critical pressure (MPa)**	No information.
Octanol/water partition coefficient as log Pow	No information.	**Flash point (℃)**	>100
Auto-ignition temperature(℃)	No information.	**Solubility**	Immiscible with water.
Upper explosive limits %(V/V)	No information.	**Lower explosive limits %(V/V)**	No information.
Main purpose	Chemical products.		
Other properties	No information.		

10. Stability and Reactivity

Stability	Stable under ordinary conditions of use and storage.
Incompatibilities	Strong acid, strong base or strong oxidizer.
Conditions to avoid	Damp, heat or light.
Hazardous polymerization	No information.
Hazardous decomposition	No information.

11. Toxicological Information

Acute toxicity	2-Hydroxyethyl methacrylate(CAS No. 868-77-9): LD50 - Oral - Rat - 5564 mg/kg
	2-Hydroxy-2-methylpropiophenon(CAS No. 7473-98-5): LD50 - Oral - Rat - 1694 mg/kg LD50 - Dermal - Rat - 6929 mg/kg
Skin irritation/corrosion	No information.
Eye damage/irritation	2-Hydroxyethyl methacrylate(CAS No. 868-77-9): Eye irritation.
Respiratory or skin sensitization	2-Hydroxyethyl methacrylate(CAS No. 868-77-9): Skin sensitization.
Reproductive cell mutagenicity	No information.
Carcinogenicity	This material is not listed in IARC (International Agency for Research on Cancer) Category.
Reproductive toxicity	No information.
STOT-single exposure	No information.
STOT-repeated exposure	No information.
Aspiration hazard	No information.

Health hazards	Inhalation: Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Ingestion: May be harmful if swallowed. Skin Contact: Causes skin irritation or allergic skin reaction. Eye Contact: Causes eye serious irritation.
Other toxicity	No information.

12. Ecological Information

Ecological toxicity	Copper (CAS No.7440-50-8): Toxicity to algae static test EC50 - Desmodesmus subspicatus (green algae) - 1.95 mg/L - 72 h
Persistence and degradability	Copper (CAS No.7440-50-8): Readily biodegradable.
Bioaccumulation	No information.
Mobility in soil	No information.
Others	No information.

13. Disposal Information

Disposal measures	Offer surplus and non-recyclable solutions to a licensed disposal company.
Notes	Local disposal regulations may differ from Chinese regulations. Dispose in accordance with local country or state.

14. Transportation Information

Regulations	**IATA DGR**	**IMDG Code**
UN No.	Not regulated.	Not regulated.
Proper Shipping Name	Not regulated.	Not regulated.
Hazard Class	Not regulated.	Not regulated.
Packing Group	Not regulated.	Not regulated.
Packing Method	Not regulated.	Not regulated.
Environmental hazards	All ingredients are not subjected to known marine pollutant according to IMDG Code (International Maritime Dangerous Goods Code). All ingredients are not subjected to environmentally hazardous substance according to ADN (European Provisions Concerning the International Carriage of Dangerous Goods on Inland Waterway).	
Notes	Not regulated.	

15. Regulatory Information

Domestic authority regulations:
Regulations on the Safety Administration of Dangerous Chemicals(2011).
This material is listed in General rule for classification and hazard communication of chemicals (GB 13690-2009).
International Regulations:
All ingredients are listed in TSCA (Toxic Substance Control Act) and DSL (Domestic Substances List).

16. Other Information

Revision	0
Issue date	March 31, 2016
Prepared by	Department of Physical Properties Test, China National Analytical Center, Guangzhou
Checked by	Business Department, China National Analytical Center, Guangzhou
Other information	——

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