

Model Resin Safety Data Sheet (MSDS)

1. Product and Company Identification

Trade Name: Model Resin

Product Models: BSM-MD01, BSM-MD02, BSM-MD03, BSM-MD04, BSM-MD05, BSM-MD06, BSM-MD07, BSM-MD08, BSM-MD09, BSM-MD10, BSM-MD11, BSM-MD12, BSM-MD13, BSM-MD14, BSM-MD15, BSM-MD16, BSM-MD17, BSM-MD18, BSM-MD19, BSM-MD20, BSM-SG01, BSM-SG02, BSM-SG03, BSM-SG04, BSM-GV01, BSM-GV02, BSM-GV03, BSM-GV04

Manufacturer: Chengdu Besmile Medical Technology Co., Ltd.

Address: No.9,Sec.2, Shengwucheng North Rd., Chengdu Tianfu International Bio-Town, Shuangliu District, Chengdu, Sichuan 610200, P.R.China.

2. Composition Information

Component	Content (%)
Acrylate Oligomer	20-60
Acrylate Monomer	25-55
Photoinitiator	1-5
Additive	0.1-10

3. Hazards Identification

Classification of the substance or mixture:

Acute toxicity: Category 5 (Oral)

Skin corrosion/irritation: Category 1

Serious eye damage/eye irritation: Category 1

Skin sensitization: Category 1

Specific target organ toxicity - repeated exposure: Category 2

Hazardous to the aquatic environment, acute hazard: Category 2

Hazardous to the aquatic environment, long-term hazard: Category 1

Label Elements and Warning Statements:

Graphic Symbols:



Warning Statement:

WARNING

Hazard statements:

H302: Harmful if swallowed

H313: May be harmful in contact with skin

H315: Causes skin irritation

H317: May cause an allergic skin reaction

H318: Causes serious eye damage

H319: Causes serious eye irritation

H361: Suspected of damaging fertility or the unborn child

H373: May cause damage to organs through prolonged or repeated exposure

H401: Toxic to aquatic life

H410: Very toxic to aquatic life with long lasting effects

Precautionary statements (Prevention):

P260: Do not breathe dust/fume/gas/mist/vapors/spray

P264: Wash hands thoroughly after handling

P270: Do not eat, drink or smoke when using this product

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

P273: Avoid release to the environment

P280: Wear protective gloves/protective clothing/eye protection

Precautionary statements (Response):

P302+P352: IF ON SKIN: Wash with plenty of water

P305+P354+P338: IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P330: IF SWALLOWED: rinse mouth

P362+P364: Take off contaminated clothing and wash it before reuse

P391: Collect spillage

Precautionary statements (Disposal):

P501: Dispose of contents/container in accordance with national or local regulations

4. First Aid Measures

Inhalation: If a person is overcome by contaminated fumes, immediately move them to fresh air. Administer oxygen or artificial respiration if necessary. It is important to act quickly and get immediate emergency medical care.

Eye Contact: In case of eye contact, immediately flush with running water for 20-30 minutes, blinking continuously during rinsing. If symptoms such as pain, blinking, tearing, or redness occur, seek immediate medical attention.

Skin Contact: Immediately remove contaminated clothing. Wash skin thoroughly with mild soap and water. Rinse with warm water for 15 minutes. If the skin feels sticky, first clean with a waterless cleanser. If symptoms or irritation persist, seek immediate medical attention.

Ingestion: If a large amount is ingested by a fully conscious person, have them drink a moderate amount of warm water. Do not induce vomiting, as the risk of lung damage from aspiration is greater than the toxicity of the substance itself. Seek immediate medical attention.

5. Firefighting Measures

Fire and Explosion Hazard: High temperatures, flame retardant removal, accidental mixing, or exposure to radiation or oxidizing agents can cause spontaneous polymerization, generating heat and pressure. Closed containers may rupture or burst when the polymer is expelled.

Extinguishing Media: Dry chemical, CO₂, foam, water spray for cooling.

Special Hazards: Forms smoke and may release hazardous vapors when exposed to fire.

Special Protective Equipment: Do not enter a fire area without adequate protection. Fight the fire from a safe distance or a protected location.

6. Accidental Release Measures

Spill Response: Spilled or poured material may polymerize, releasing heat and gas. Extinguish all ignition sources and ventilate the area. Wear protective equipment during handling. Dike and contain large spills. Absorb small spills with an inert solid (e.g., vermiculite, clay), then sweep or shovel into a waste disposal container. Clean the contaminated area with a strong detergent and water solution.

7. Handling and Storage

Handling: Wear appropriate protective equipment. Eating, drinking, and smoking are prohibited in areas where this product is handled, stored, and processed. Avoid contact with eyes, skin, and clothing.

Storage: Suitable container material: High-density polyethylene. This product must be stored at room temperature, protected from light, moisture, and kept sealed. Avoid direct sunlight. Keep away from incompatible substances such as acids, peroxides, and water. Do not exceed a storage temperature of 45°C.

8. Exposure Controls/Personal Protection

Respiratory protection: Personal respiratory protection is generally not required.

Hand protection: Protective gloves.

Eye protection: Safety goggles.

Skin protection: Long-sleeved clothing.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practices.

9. Physical and Chemical Properties

Appearance: Liquid

Color: Transparent, Yellow, Gray, Pink, A1, A2, A3

Odor: Acrylate odor

Flash Point: >100°C

Relative Density: 1.05-1.5 g/cm³ @ 25°C

Solubility in Water: Sparingly soluble

Kinematic Viscosity: 200-1500 mPa·s @ 25°C

10. Stability and Reactivity

Conditions to Avoid: UV light and other high-energy radiation, high temperatures.

Materials to Avoid: Peroxides, oxidizing substances, strong oxidizing agents, free-radical initiators.

Hazardous Reactions: The product may polymerize if the storage period and temperature are exceeded. Polymerization is exothermic.

Hazardous Decomposition Products: No hazardous decomposition products are known if stored and handled as prescribed.

11. Toxicological Information

Skin corrosion/irritation: Irritating.

Serious eye damage/irritation: Causes irreversible damage.

Skin Sensitization: May cause an allergic skin reaction.

Mutagenicity: Based on component analysis, no suspected mutagenic effects.

12. Ecological Information

No data available. Do not discharge the product into the environment without control.

13. Disposal Considerations

Cured resin: Can be disposed of as household waste.

Uncured resin: Should be disposed of through a local waste disposal authority or a chemical waste collection point; do not discharge directly into the wastewater system.

14. Transport Information

This product is not classified as dangerous goods and can be transported as general cargo by air and sea.

15. Regulatory Information

According to relevant regulations, this product does not require labeling.

16. Other Information

The user should use this information as a supplement to other information obtained and should make independent judgments about the suitability of this information to ensure the proper use and safety of personnel. This information does not constitute a complete guarantee. The user is responsible for any consequences arising from the use of the product not in accordance with this Material Safety Data Sheet or in combination with other products.