

# Material Safety Data Sheet

## 1. Product and supplier data

Product name/no.	
Product category	
Name of manufacturer or supplier	

## 2. Hazard recognition data

Product hazard classification	Fourth class of flammable liquid, fifth class of acute toxic substance (swallowing), third class of corrosive/irritating to the skin, 2B class of substance with severe injury/irritation to the eye, first class of skin allergic substance, second class of inhaling hazardous substance.
Designation content Symbol	
Warning word	Exclamation mark, hazard to health. Warning
Hazard warning message	Combustible liquid, swallowing might be hazardous, irritation to the eye might be caused, mild irritation to the skin might be caused, allergy to the skin might be caused, might be hazardous if swallowed and enters the respiratory tract.
Hazard prevention action	Put the container in well ventilated place. Keep away from fire and smoking is prohibited. Prevent direct contact with eye and skin. Please wear appropriate personal protection tool. If you feel not good, please ask for medical support.
Other hazard	---

\*Please refer to the material safety data sheet as provided by the raw material supplier and the data "Hazard data information database of hazardous substance" as provided by Council of Labor Affairs.

## 3. Composition recognition data

Product composition	Wt %	CAS No.
Epoxy Resin	40-50	Proprietary
Epoxy Hardener	30-40	Proprietary
Diluent	10-20	Proprietary
Titanium Oxide	1-5	13463-67-7
Thixotropic Agent	0-2	Proprietary

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## 4. First aid action

First aid method for different exposure paths	<ul style="list-style-type: none"> <li>• Inhaling: Please bring the poisoned person away from the work site and move the person to quiet, cool and well ventilated place.</li> <li>• Skin contact: Please use soap water to clean the contaminated area and clothes. If any stinging pain occurs, please send the patient to the doctor for medical help immediately.</li> <li>• Eye contact: Please use warm water to wash the eye for at least 15 minutes and then use sterilized and dry gauze on the eye gently, then send the patient to an eye doctor for first aid.</li> <li>• Swallowing: Wash the mouth first, then drink massive amount of water for dilution, then perform vomiting and send the patient to a doctor immediately.</li> </ul>
The most important symptom and hazardous effect	Vomiting and stinging pain.
Protection to the first aid personnel	Please wear non-permeable gloves and avoid contacting the contaminated substance.
Hint to the doctor	If dizziness, difficulty of breathing or spasm occurs, please do not do vomiting or give water to the patient.

## 5. Fire extinguishing action

Applicable fire extinguisher	CO <sub>2</sub> , foaming or dry powder chemical fire extinguisher.
Special hazard that might be encountered during the fire fighting period	When resin is heated and gets deteriorated and decomposed, it might generate CO, acetone, aldehyde, ammonia and other organic compounds.
Special fire-extinguishing procedures	Move the bucket with resin away immediately to safe area.
Special protection tool for fire-fighting personnel	Fire-fighting personnel should wear air ventilator, fire-fighting suit and protection gloves.

## 6. Leaking handling procedures

Personal precautions	Please wear appropriate personal protection tool. But the ground might be slippery after cleaning, please wipe it clean and avoid falling down.
Environmental precautions	Perform air circulation on that area. Extinguish or remove all the fire sources. Avoid the entrance of leaked substance into the sewage system to contaminate the water source. That is, it needs to be completely recycled.
Cleaning method	Avoid the continuous occurrence of leaking first. Then take the leaked substance in a container, then recycle it and send it to qualified and professional supplier for incineration or hygiene landfill treatment.

## 7. Safe handling and storage method

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Handling	Please use personal protection tool and handle the container with resin carefully. Please avoid severe collision, which might cause container breaking and lead to the leaking of the resin. Please install emergency water showering equipment so as to cope with the situation of contacting skin or eye. Please keep away from light, heat and non-compatible substances. Please keep the environment in well circulation.
Storage	Store it at a cool place away from fire source. Please avoid direct sunshine exposure, rain and severe temperature difference. After the can is opened, please avoid sunshine exposure. Please keep the air well circulated at operation site. Please close the cover if it is not in use.

## 8. Exposure prevention action

Engineering control: Provide air ventilation and circulation equipment and keep the operation at good air circulation. It is strongly prohibited to smoke or eat at the work site, please keep the work site clean.

Control parameters:

Product composition and name	Time weighted average allowable concentration TWA/8hr	Short time weighted average allowable concentration STEL	Maximum allowable concentration CEILING	Biological indicator BEIs
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Personal protection tool:	<ul style="list-style-type: none"> <li>• Breathing protection: Please use face mask or gas mask.</li> <li>• Hand protection: Please use latex gloves.</li> <li>• Eye protection: Use safety goggles.</li> <li>• Skin and body protection: Please wear clothes with long sleeves during the work and take off contaminated clothes as soon as possible after work. The clothes can be worn again after cleaning.</li> </ul>
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Hygiene action:	<p>Before taking foods, please wash hands and face with soap. Keep your body healthy through daily exercise.</p> <p>Take nutritious product with vitamin and mineral. Take periodical health check.</p>
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## 9. Physical and chemical property

Appearance (Substance state and Color)	Light yellow sticky liquid
Odor	Mild
PH value	---
Flammability (Solid and gas)	---
Decomposition temperature	---
Self-ignition temperature	---

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Vapor pressure	< 0.3mmHg (20°C)
Specific gravity	1.18 (Water=1)
Octanol/ water distribution coefficient (log Kow)	----
Boiling point/boiling point scope	>250°C
Flash point/test method	> 88°C / Open cup
Explosion Limit	Upper Limit (UEL) : --- Lower Limit (LEL) : ---
Vapor density	> 9.5 (Air =1)
Solubility	< 1%
Evaporation rate	---

## 10. Safety and reaction property

Stability	It is stable when normal operation and storage procedure is followed.
Possible hazardous reaction under special situation	Possible chemical polymerization reaction for long light and heat exposure.
Situation that should be avoided	Please keep way from flammable and combustible substance, heat, spark or flame.
Substance that should be avoided	Strong oxidant, free radical initiator, peroxide and alkaline substance.
Hazardous decomposition substance	When it is heated, the deterioration and decomposition reaction might generate CO, Acetone, aldehyde and other possible organic compounds.

## 11. Toxicity data

Paths to enter human body.	Inhaling, skin contact, swallowing and eye contact.		
Acute toxicity	<ul style="list-style-type: none"> <li>• Inhaling: Irritate nose and throat.</li> <li>• Skin: It causes light irritation.</li> <li>• Eye: Vapor will cause irritation.</li> <li>• Swallowing: It might cause headache, nausea, dizziness and tiredness.</li> </ul>		
Name of the product composition	Concentration Wt %	LD <sub>50</sub> Absorption path of animal under test	LC <sub>50</sub> Absorption path of animal under test
Epoxy Resin	40-50	---	---
Epoxy Hardener	30-40	---	---
Diluent	10-20	---	---
Titanium Oxide	1-5	---	---

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Thixotropic Agent	0-2	---	---
Partial effect	When the skin contacts the liquid for a long term, stinging pain will be caused.		
Sensitization	---		
Chronic toxicity or long term toxicity	---		
Special effect	---		

## 12. Ecological data

Possible influence to the environment/Environmental distribution	Avoid the entrance of the leaked substance to the sewage system to contaminate the water source or soil. Resin can be disposed only after it is polymerized and cured.
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## 13. Disposal method

Disposal method	Waste can be sent to government approved waste treatment center for further processing.
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## 14. Transportation information

International transportation regulations	<ul style="list-style-type: none"> <li>• CFR classification: Not limited.</li> <li>• IATA/ICAO classification: Not limited (International Shipping Organization).</li> <li>• IMDG classification: Not limited (International Shipping Organization).</li> </ul>
United Nation Number	---
Domestic transportation regulation	During the transportation, sealed container is needed to avoid leaking.
Special transportation method and precautions	---

## 15. Regulation information

Applicable regulation	<ul style="list-style-type: none"> <li>• Road traffic safety regulation.</li> <li>• Labor safety and hygiene facility regulation.</li> <li>• Designation and common sense regulations of hazardous substance and harmful substance.</li> <li>• Allowable concentration standard of harmful substance in the air of labor's operation environment.</li> <li>• Storage, disposal and handling method and facility standard of industrial waste.</li> <li>• Installation standard and safety management method of public hazardous substance and flammable and high pressure gas.</li> </ul>
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## 16. Other information

Preparation enterprise	
Preparation department	Technical Department
Preparation date	

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