

TG31 Premium Epoxy Grout, TG33 Epoxy Grout**MATERIAL SAFETY DATA SHEET****MSDS-EN-TG31/TG33-0727****Section 1 Chemical Product and Company Identification**

Product Name	TG31 Premium Epoxy Grout	TG33 Premium Epoxy Grout
Manufacturer Information:	TAMMY Energy-saving Building Materials (Beijing) Co., Ltd.	
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	District, Beijing, P. R. China	
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Section 2 Composition/Information on Ingredients

TG31 Premium Epoxy Grout is a kind of chemical mixture.

Material Name	CAS No.	Percentage	EC Danger Sign
Liquid Epoxy Resin	1675-54-3	10-30	
Water	7732-18-5	5-10	
Modified Polyamine Curing Agent		10-30	
Color Sand		45-65	
Gold and Silver Powder		10-20	

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Liquid Epoxy Resin	1675-54-3	10-30	
Water	7732-18-5	5-10	
Modified Polyamine Curing Agent		10-30	
Limestone	1317-65-3	30-60	R36/38
Pigment	1309-37-1	0-20	

See section 16 for more information.

Section 3 Hazards Identification

According to the regulations, this product has not been included in the hazardous category.

Health Risk: The workers who prepare and use the product may have the following symptoms, such as headache, nausea, loss of appetite, burning pain, eyelid edema, upper respiratory tract irritation and skin diseases. The main hazards it causes is the allergic skin diseases with the symptoms of urticant erythema, papules, herpes, eczema and dermatitis.

Section 4 First AID Measures

If there is any issues or symptoms continues, please seek medical help.

Skin Contact:	Take off the contaminated clothes, wash skin with soap and water, or personal skin detergent. Do not use solvent or diluent.
Eye Contact:	Hold eyelids apart, flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.
Ingestion:	Do not induce vomiting. Take rest and get medical attention.
Inhalation:	Immediately transfer to fresh air, keep respiratory tract unobstructed. If breathing is

irregular or stopped, immediate cardiopulmonary resuscitation should be given, and send to a doctor as soon as possible.

Section 5 Fire Fighting Measures

Hazardous Characteristics: Incombustible, but during thermal decomposition, it may emit poisonous gas

Flammability Rating: Incombustible

Combustion and Explosion Hazard: The dry products may cause combustion.

Fire Extinguishing Method and Fire Extinguishing Agent: Suitable for use as the fire extinguishing material.

Firefighting Precautions: Firefighter should wear protective clothing including ventilator set.

Section 6 Accidental Release Measures

Personal Precautions: Use personal protective equipment. Keep away from the spilled / exposed materials and stand on the windward side.

Cleaning Methods: Don't discharge the release materials and waste into the municipal sewage and open water. Absorb them with dry sand or similar material.

Section 7 Handling and Storage

Handling Procedure: Must provide good natural ventilation conditions. Operating personnel must wear self-absorption filter dust masks, chemical protective safety glasses, avoid contact with eyes, skin and clothes. Wash thoroughly after operation. Away from fire, heat source, smoking is prohibited in the workplace. Avoid contact with oxidizing agent. When loading and unloading with extreme care, prevent damage to the packaging and containers. Equipped with the appropriate variety and quantity of firefighting equipment and leakage emergency treatment equipment. Keep container tightly closed. Do not breathe the steams, vapour, or gas.

Storage Procedures: Store in a cool, dry, well-ventilated area. The storage temperature range should be kept between 5°C and 35°C. Keep the package sealed and separate from oxidant. Storage area should be equipped with emergency treatment equipment and suitable absorbing materials.

Other Physical and Chemical Properties: Ensure the necessary ventilation during heating process.

Section 8 Contact Control/Personal Protection

Engineering Control: Keep well ventilation

Respiratory Protection: Wear a mask, select the appropriate respirator; Regularly check the respiratory system, lung function and skin

Eyes Protection: Wear safety glasses

Body Protection: Wear protective clothing, avoid repeated or prolonged skin contact, working clothes should be changed every day.

Other Protection: No smoking in the working place. Keep good health habits.

Section 9 Physical and Chemical Properties

Physical and Chemical Properties of TG31 Premium Epoxy Grout

Item	Index
Physical State	Multicomponent repackaging, Sticky paste after mixing
Color	A variety of color
Odor	Slight amine smell

PH	7-10
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Boiling Point	N/A
Melting Point	N/A
Flash Point	N/A
Upper Explosive Limit	N/A
Lower Explosive Limit	N/A
Viscosity (mPa.s, 25℃)	20000—60000
Relative Density, 25℃	1.5—1.9g/cm ³
Volatility	Water、0.5%Propylene glycol monomethyl ether
Solubility	Hydrophile
Other Properties	N/A

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Boiling Point	N/A
Melting Point	N/A
Flash Point	N/A
Upper Explosive Limit	N/A
Lower Explosive Limit	N/A
Viscosity (mPa.s, 25℃)	10000—50000
Relative Density 25℃	1.3—1.6g/cm ³
Volatility	Water、0.2%Propylene glycol monomethyl ether
Solubility	Hydrophile
Other Properties	N/A

Section 10 Stability & Reactivity

Stability: Stable when kept in the original package. No chemical reaction will occur by itself. Heating temperature should not exceed 40 ℃, frozen is not permitted.

Avoid Contact Conditions: Mix epoxy resin and curing agent will cause hardening reaction.

Hazardous Decomposition: Unknown

Possibility of Hazardous Reactions: Unknown

Section 11 Toxicological Information

Acute Oral Toxicity: LD50 Rat>40,000mg/kg

Acute Skin Toxicity: LD50 Rabbit >100,000mg/kg

Irritation: N/A

Sensitization: N/A

Mutagenicity: N/A

Teratogenicity: N/A

Carcinogenicity: N/A

Other: N/A

Section 12 Ecological Information

N/A

Section 13 Disposal Considerations

Waste Type: Hazardous waste Industrial solid waste

Environment Prevent Measures: Don't discharge the release materials and waste into the municipal sewage and open water.

Scrapage Disposal: Scrap materials means the materials is not in conformity with the definitions of RCRA on flammable, corrosive, or reactivity, and not listed in the 40 CFR261.33.

Processing facilities should be in accordance with local, state and federal laws and regulations.

Waste Disposal: Material and packaging will be recycled or treated based on the existing laws and regulations.

Section 14 Transportation Information

Road and Rail Transportation Rating: Not classified as dangerous

Ocean Transportation Rating: Not classified as dangerous

Air Transportation Rating: Not classified as dangerous

Packaging: Bag, pile

Transportation classification may vary based on the container volume and different countries and regions

Section 15 Regulatory Information

This product does not belong to dangerous goods management scope based on the existing law and regulations.

Section 16 Other Information

Issue Date: 2015.1.18

Data Auditing:

Issue By: Technical Department

Other Information: The full text of dangerous substances please refer to clause 2.

Disclaimer: The use and transportation of this product must be in strict accordance with the instructions. The product is suitable for indoor and outdoor ceramic tile, stone and mosaic joint for walls and ground. Without the company's confirmation or explanation, this product cannot be used for other purposes, Otherwise the company will not bear the relevant responsibility.