

Product Safety Data Sheet

TS111

Cast iron repair agent**Part 1: Product Overview**

Product Name: TS111A

Product Type: Cast Iron Repair Agent

Manufacturer Name: Shanghai Diwang Import and Export Co., Ltd. Recommended Uses and Restricted Uses

Confirmed Uses: Patch Series

address: No.196, Zhenpu Road, Qingcun Town, Fengxian District, Shanghai

telephone: 13661523526

zip code: 201414

Emergency Consultation Phone Number

24-hour emergency contact number: 13661523526

Part 2: Main Components

Chemical name	CAS NO.	Content (Wt%)
Epoxy resin	25068-38-6	25-40
Flexibilizer	Unknown	5-10
Stainless steel powder	12597-69-2	10-20
Ferrous powder	7439-89-6	20-40
Silica	7440-21-3	10-30
Silica dioxide produced by the gas-phase method	112945-52-5	2-6

Part 3: Overview of Hazards

routes of exposure: inhalation, skin contact, ocular exposure, accidental ingestion.

health hazard :

Eye contact: May cause eye irritation, redness, tearing, and inflammation.

Inhalation: In individuals with an allergic constitution, inhalation of the vapor may trigger allergic reactions.

Skin: For individuals with allergic constitutions, contact may cause skin irritation or dermatitis.

Misuse: May cause gastrointestinal irritation and nausea.

Part 4: First Aid Measures

Eye contact: Rinse with running water for 15 minutes; if irritation persists, seek medical attention.

Inhalation: Immediately remove the individual from the exposure area to a location with fresh air and ensure airway patency. Seek medical attention if discomfort persists.

Skin contact: Immediately remove contaminated clothing and rinse thoroughly with plenty of running water and soap solution.

Misadministration: Do not induce vomiting; seek medical attention.

Part 5: Fire Safety MeasuresFlash point: $\geq 93^{\circ}\text{C}$

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Flammability: Not flammable.

Fire extinguishing agents: carbon dioxide, dry powder, foam.

Fire extinguishing precautions: Spray water to cool containers in the fire area. Firefighters must wear a respirator or positive-pressure self-contained breathing apparatus (PPEB).

Hazardous combustibles: toxic fumes such as carbon monoxide, carbon dioxide, and NOx.

Part 6: Emergency Response Measures for Leaks

Ventilate the leakage area, eliminate ignition sources, and avoid inhaling large amounts of vapor. Absorb with sand or other similar materials. Dispose according to the requirements of environmental protection authorities.

Part 7: Operations and Storage

Operational precautions: Ensure adequate ventilation and avoid contact with eyes and skin. Storage temperature should not exceed 28°C. Keep away from heat sources, ignition sources, and direct sunlight; avoid contact with strong acids, strong alkalis, and oxidizing agents; handle with care during transportation to prevent compression or vibration-induced damage to packaging and containers.

Part 8: Protective Measures:

Process Control: Comprehensive ventilation or localized exhaust.

Respiratory protection: Special protection is generally not required; in cases of high-concentration exposure, a ventilated face mask or self-contained breathing apparatus with filtration can be worn.

Eye protection: Wear chemical safety goggles.

Body Protection: Wear standard work protective clothing.

Hand protection: Wear chemical-resistant gloves.

Part 9: Physical and Chemical Properties

Appearance and characteristics: A metallic gray paste.

Relative Density: 1.8

Solubility: Mixable with organic solvents.

pH: — — —

Boiling point: ≥150°C

Melting Point: - - -

Part 10: Stability and Reactivity

Stability: Stable.

Agglomeration Hazards: Do not aggregate.

Precautions for handling: Avoid high temperatures and open flames.

Contraindications: strong oxidizing agents, strong acids, strong bases, and other polymerization initiators.

Combustion (decomposition) products: toxic smoke including carbon monoxide, carbon dioxide, and NOx.

Part 11: Toxicological Information

Acute oral toxicity:>5,000 mg/kg (rat)

Acute transdermal toxicity:>2,000 mg/kg (white rabbits)

Part 12: Ecological Information

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Disposal method: Please consult the local environmental protection department.

Part 14: Transportation

Applicable Transport Name:

No restrictions are specified.

Air Transport Name:

No restrictions are specified.

Name of Maritime Transport:

No restrictions are specified.

Part 15: Regulatory Information

Neither the product nor its components fall under the category of highly toxic substances in the "China Existing Chemicals Catalogue".

Part 16: Other Information

The information in this Safety Data Sheet has been prepared based on our current level of knowledge and applicable national laws. The product shall not be used for any purpose other than those specified in the technical data sheet without prior written notification. It remains the responsibility of the user to take all necessary measures to comply with applicable regulatory requirements.