

Product Safety Data Sheet

TS111

Cast iron repair agent

Part 1: Product Overview

product name : TS111B

product type : Cast iron repair agent curing 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 Composition and Characteristics

Chemical name	CAS	Percentage (%)
Polyamide	63428-84-2	40-60
Triethylene tetramine	112-24-3	10-20
N-Aminoethylpiperazine	140-31-8	10-20
Alumina powder	1344-28-1	10-20
Titanium pigment	13463-67-7	1-3
Surface treatment using the gas-phase method for silica production	67762-90-7	2-7

Part 3: Overview of Hazards

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

health hazard :

Eye contact: May cause eye irritation, redness, tearing, ocular tissue damage, pain and discomfort, corneal edema, and blurred vision.

Inhalation: In individuals with allergic constitutions, inhalation of the vapor may induce allergic reactions in the nasal cavity and respiratory tract, respiratory inflammation, nasopharyngitis, and in severe cases, loss of consciousness.

Skin: In individuals with allergic constitutions, it may induce allergic skin reactions, leading to rashes and inflammation; prolonged exposure can result in skin ulceration.

Accidental ingestion: May cause gastrointestinal irritation, nausea, vomiting, and diarrhea. It can also induce inflammation of the mouth and throat.

Part 4: First Aid Measures

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

Inhalation: Immediately remove the individual from the exposure area to a well-ventilated location and maintain airway patency. If dyspnea occurs, administer oxygen therapy; if respiration ceases, perform artificial respiration immediately. Seek medical attention promptly.

Skin contact: Immediately remove contaminated clothing and rinse thoroughly with plenty of running water and soap. Seek medical attention immediately if symptoms occur.

Misadministration: Do not induce vomiting (unless directed by medical personnel); seek immediate medical attention.

Product Safety Data Sheet

TS111

Cast iron repair agent

Part 5: Fire Safety Measures

Flash point: $\geq 93^{\circ}\text{C}$

Flammability: Not flammable.

Fire extinguishing agents: water mist, 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).

Harmful combustibles: toxic fumes such as carbon monoxide, carbon dioxide, ammonia, aldehydes, ketones, phenolic plastics, and NOx.

Part 6: Emergency Response Measures for Leaks

Ventilate the leakage area, eliminate ignition sources, and prevent inhalation of large amounts of vapor. Immediately contact emergency response personnel and absorb the substance with sand or other similar inert materials. Dispose according to the requirements of environmental protection authorities.

Part 7: Operations and Storage

Operational precautions: Do not taste or swallow; ensure adequate ventilation; avoid inhaling the mist or vapor; prevent contact with eyes and skin. Keep the container tightly sealed and clean thoroughly after use. Store in a cool, well-ventilated area. Keep away from heat sources and ignition sources, and protect from direct sunlight. Avoid contact with strong acids, strong alkalis, and oxidizing agents. Handle with care during transportation to prevent damage to packaging or containers due to compression or vibration.

Part 8: Protective Measures

Process Control: Implement comprehensive ventilation or localized exhaust to maintain air concentrations below the established exposure limits.

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 and avoid skin contact.

Hand protection: Wear chemical-resistant gloves.

Part 9: Physical and Chemical Properties

Appearance and characteristics: Pale yellow

Odor: Ammoniacal

Relative Density: 1.05

pH: 10

solubility: Soluble in organic solvents, slightly soluble in water

boiling point: $\geq 150^{\circ}\text{C}$

melting point: — — —

Part 10: Stability and Reactivity

Stability: Stable

Polymerization hazard: It undergoes an exothermic reaction with certain epoxides, releasing a large amount of heat that is difficult to control.

Precautions for contact avoidance: Keep away from heat sources exceeding 50°C and avoid contact with contraindicated substances.

Contraindications: strong oxidizing agents, strong acids, strong bases, peroxides, epoxides, other initiators, etc.

Combustion (decomposition) products: carbon monoxide, carbon dioxide, and NOx, among others.

Product Safety Data Sheet

TS111

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Acute oral toxicity:>10,000 mg/kg (rat)

Acute transdermal toxicity:>5,000 mg/kg (white rabbits)

Part 12: Ecological Information

non-avaible

Part 13: Waste Disposal

Disposal method: Please consult the local environmental protection department.

Part 14: Transportation

Applicable Transport Name:

No restrictions specified

Air Transport Name:

No restrictions specified

Name of Maritime Transport:

No restrictions 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 contained in this Material Safety Data Sheet (MSDS) 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 MSDS without prior written notification. It remains the responsibility of the user to take all necessary measures to comply with applicable regulatory requirements.