

SDS (Safety Data Sheet)

CERATIGHCA NO.2

Revised Date: May 31,2026

Safety Data Sheet: 5697-2026

Part I: Chemicals and Enterprise Identification

Chinese name of the chemical product: Indoor Non-Expansive Steel Structure Fire Retardant Coating / Outdoor Non-Expansive Steel Structure Fire Retardant Coating

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Manufacturer: Manufacturer: Sikoku Kaken (Shanghai) Co., Ltd.

Address: No.357, Chundong Road, Minhang District, Shanghai, P.R. China

Postal Code: 201108

Corporate Phone: 021-5442-8889

Recommended Use and Restricted Use: For use solely as a fire-resistant coating.

Part II - Hazard Overview

Hazard Category: Non-hazardous material

Route of exposure: Oral ingestion or dermal absorption

Health hazard: Causes eye irritation

May cause skin allergic reactions

Environmental hazards: Refer to Part XII - Ecological Data

Fire and explosion hazard: None

[GHS Label Elements]

Warning Graphic

not have

Preventive Measures

- Please read the user manual before use.
- Please read all safety precautions before use.
- Avoid release into the environment.
- Use only outdoors or in well-ventilated areas.
- Wash your hands thoroughly after use.
- Wear protective gloves, protective goggles, a protective mask, or protective clothing.
- Use personal protective equipment (PPE).

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Part III: Composition/Composition Information

Difference between pure substance and mixture: Pure substance | Mixture

Chemical product name: Non-expansive steel structure fire-resistant coating

key component:

	name	Content (%)	CAS No
1	cement	15~25%	65997-15-1
2	filling	40~50%	1330-44-5
3	pearlite	5~15%	130885-09-5
4	Vermiculite	5~15%	1318-00-9
5	powdex	1~ 5%	24937-78-8

injurious ingredient:

	injurious ingredient	Content (%)	CAS No
1	-	-	-

Part IV - Emergency Care Measures

If you have any questions or if your symptoms persist, please seek medical attention.

Skin contact: Immediately wipe away any adhered substance with a cloth, remove any contaminated clothing, and wash the skin with water or soap. If you notice visible changes, experience irritation or pain, or feel unwell, seek medical attention.

Eye exposure: Immediately rinse the affected area with running water for at least 15 minutes; if contact lenses are worn and can be easily removed, remove them before continuing the rinsing process. Additionally, rinse the inner eyelids and seek medical attention as soon as possible.

Inhalation: Immediately transfer the patient to an area with fresh air and have them rest in a position that facilitates breathing; seek medical attention once the patient's condition has stabilized. If the patient's breathing becomes irregular or stops, perform artificial respiration, prevent the patient from inhaling vomited or contaminated material, and seek medical attention promptly. Administer oxygen if necessary.

Ingestion: If swallowed accidentally, seek medical attention immediately. Avoid inhaling vomit; unless instructed by a physician, do not induce vomiting forcibly.

Part V - Fire Protection Measures

Hazardous characteristics: No data available

Hazardous combustion products: black smoke, carbon monoxide, carbon dioxide

(The coating itself does not burn; however, when the coating film or related materials burn, toxic gases such as CO are produced.)

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Firefighting methods and extinguishing agents: recommended – carbon dioxide, foam, dry powder, or sand-based fire extinguishers

Do not use cluster water extinguishers to put out fires.

Firefighting precautions: When conducting firefighting operations, wear appropriate protective equipment (e.g., heat-resistant clothing); perform operations from the upwind position; if there are flammable or combustible materials in the vicinity, spray them with water for cooling and then promptly move them to a safe location.

Part VI: Leak Emergency Response

Emergency response: Have personnel sheltered downwind; do not perform any work downwind. Immediately remove any nearby fires, ignition sources, or combustible materials. Prevent unauthorized persons from approaching the area to avoid causing secondary injuries. In the event of a minor leak, collect the material using dry soil, sand, or other non-combustible materials. In the event of a major leak, enclose the area with soil to prevent further leakage. Use tools that do not generate sparks for recovery operations. Take care not to contaminate rivers, drainage systems, lakes, wetlands, water sources, or other water bodies.

Part VII: Operational Handling and Storage

Operating precautions: Personnel are prohibited from entering or using the designated area. Keep containers tightly sealed.

This substance becomes alkaline upon contact with water; therefore, wear appropriate personal protective equipment to prevent contact with skin, mucous membranes, clothing, eyes, or inhalation.

After use, please thoroughly cleanse your face, hands, and mouth.

Avoid using any sources of fire or high-temperature objects in the vicinity. Install a grounding device and sprinkle water on the floor to prevent static electricity buildup. Wear appropriate personal protective equipment.

Storage precautions: Keep out of direct contact with water or dew; store in a room with low humidity; avoid direct contact with the floor. Use the product as soon as possible after opening; if any remains, store it in a tightly sealed container.

Avoid direct sunlight; store the item in a cool, well-ventilated location

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that can be monitored to some extent, and keep it locked away. Do not store it together with hazardous materials as specified in the Fire Safety Regulations; use an air circulation device.

Part VIII: Contact Control/Personal Protective Equipment

maximum allowable concentration:

ingredient	allowable concentration
-	-

Monitoring Method:

Engineering controls: During indoor operations, select equipment that does not expose workers directly, or install local exhaust systems, among other measures, to prevent workers from being directly exposed to dust or mist.

When working in enclosed spaces, install a ventilation device that allows for air exchange at both the top and the bottom.

Exposure control: The container must be sealed each time.

Respiratory protection: When working, wear an appropriate mask to prevent inhalation of dust or mist.

Eye protection: Please wear safety goggles during work.

Body protection: During work, wear clothing that does not expose the skin directly to the environment; where possible, use materials that do not allow chemical penetration.

Hand protection: Wear gloves that prevent the penetration of organic solvents or chemicals.

Part IX: Physical and Chemical Properties

Appearance and Form: White-gray powder

pH value: Not applicable

Melting point (° C): Not applicable

Relative density: 0.50 – 0.70 (20° C)

Relative vapor density: Not applicable

Logarithm of the octanol/water partition coefficient: Data not available

Flash point (° C): Not applicable

Upper explosive limit (% V/V): Not applicable

Ignition temperature (° C): Not applicable

Lower Explosive Limit (% V/V): Not applicable

Solubility: Slightly soluble in water

Primary use: A coating applied to the surfaces of steel structures and buildings to form a fire-resistant insulation protective layer, thereby increasing the fire resistance rating of the steel structure.

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Part X: Stability and Reactivity

Stability: No reaction occurs under standard conditions.

Incompatible materials: No data available

Precautions for avoiding contact: water (during transportation or storage); extreme temperatures.

Aggregation risk: Will not occur.

Decomposition products: The coating itself does not burn; however, when the coating film or related materials burn, toxic gases such as CO are released.

Part XI: Toxicological Data

Acute toxicity: No data available

Irritancy: Skin corrosivity: Upon prolonged exposure, the skin may be corroded or irritated.

Eye injury: Eye contact – traumatic or irritative injury

Part XII: Ecological Data

Ecotoxicity: No data available

Ecotoxicity: No data available

Persistence/Degradability: No data available

Persistence/Degradability:

No data available

Potential biological accumulation: No data available

Soil mobility: No data available

Soil mobility: No data available

Do not dispose of waste into storm drains, sewers, or water sources, to prevent it from seeping into the ground.

Part XIII: Waste Disposal

Waste materials: Tanks containing residual liquid, unused tanks, scrap materials, protective materials, used fabric, etc., should be stored in a safe location. These materials should be disposed of in accordance with local environmental protection standards or handed over to a specialized department for disposal.

Drainage: Please do not dispose of waste into storm drains, sewers, or water sources, to prevent it from seeping into the ground.

Part XIV - Transport Information

General: Adhere to the instructions for use and storage.

Avoid exposure to rainwater and dew; direct contact with the ground is prohibited.

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Verify that the packaging is leak-proof and implement measures to prevent the collapse of the goods. Wear appropriate personal protective equipment.

Hazardous Goods Code: None

UN Number: None

Packaging Label: None

Packaging category: None

Packaging method: Paper bag

Transportation precautions: Avoid exposure to rain or direct sunlight; comply with all relevant regulations issued by the transportation authorities.

Warning sign message: Ensure good ventilation during use and while the material is drying.

Avoid storing in food, beverages, or animal feed.

Part 15: Regulatory Information

Regulatory Information: Regulations on the Safety Management of Hazardous Chemicals

Regulations on the Safe Use of Chemicals in the Workplace (Ministry of Labour Document No.423,1996)

Chemical Substances Classification and Labelling Specifications - Part 1: General Principles (GB 30000.1-2024)

Law of the People's Republic of China on the Prevention and Control of Environmental Pollution Caused by Solid Waste

General Technical Conditions for the Transport Packaging of Dangerous Goods (GB12463-2009)

Part XVI: Other Information

References:

1. Workplace Chemicals Safety Management - Bureau of Work Safety, State Economic and Trade Commission, 2000
2. Comprehensive Handbook of Safety Technology for Hazardous Chemicals; Chemical Industry Press, 1997
3. Newly Compiled Safety Manual for Hazardous Materials, Chemical Industry Press, 2001
4. Chemical Safety Data Sheet - Content and Item Sequence (GB/T 16483-2008)
5. Guidelines for the Preparation of Chemical Safety Data Sheets (GB/T 17519-2013)
6. Occupational Exposure Limits for Hazardous Factors in Workplaces - Part 1: Chemical Hazardous Factors (GBZ 2.1-2019)
7. MSDS Labeling Guide {For mixtures (for coatings)} - Japan Coatings Industry Association
8. International Chemical Safety Card (ICSC)