

THM 38 Thermally Conductive Compound

1.Chemicals and Company Logos

Product Name	THM 38 Thermally Conductive Compound
Suppliers	Ruixian (Shanghai) Chemical Co., Ltd
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2.Component Composition

Ingredients	CAS #	Proportion
Organosilane Modified Zinc Oxide	-	13.0% - 23.0%
Silicone-modified aluminum	-	73.0% - 83.0%

3.Hazard Overview

EU Standard Classification	-
GB 13690-92 Classification of Commonly Used Hazardous Chemicals	Does not belong
Physical/Chemical Hazards	Combustible The material releases vapors to form a flammable gas mixture, and the vapor buildup can flash or explode if ignited. The material accumulates static electricity which may lead to discharge fire
Health Hazards	Harmful: Can cause damage to the lungs if swallowed accidentally. Vapors can cause drowsiness and dizziness May irritate eyes, nose, throat and lungs May cause central nervous system depression
Environmental Hazards	Toxic to aquatic organisms and may cause long-term adverse effects on the aquatic environment
Fire and Explosion Hazards	This product is flammable

4.First Aid

Inhalation	Use appropriate respiratory protection, transfer the patient in question immediately, perform artificial respiration if the patient stops breathing, maintain a resting state, and provide prompt medical attention.
Skin Contact	Wash the contact area with soap and water Remove contaminated clothing; contaminated clothing can be re-worn after washing.
Eye Contact	Lift eyelids and flush with running water or saline; seek medical assistance.
Accidental Ingestion	This product may cause serious damage to the lungs, such as pneumonia, seek immediate medical attention; if vomiting, keep head below thighs continuously and observe for breathing difficulties.

5.Fire Fighting Measures

Fire Extinguishers	Use foam, water, dry powder or carbon dioxide (CO2) to extinguish fires.
Hazardous Combustion Products	Silicon oxides, metal oxides, formaldehyde, carbon oxides.
Flash Point	Not specified
Fire Extinguishing Steps	Firefighters must wear gas masks and full body fire suits and extinguish fires upwind. Move containers from the fire to an open area if possible. Spray water to keep fire containers cool until the fire is extinguished. Fire is over. Containers in the fire area that have changed color or are producing sound from the safety relief device must be evacuated immediately. Evacuate immediately. Extinguishing agents: foam, dry powder, carbon dioxide, sand and soil.

6. Accidental Overflow Handling Measures

Avoid open flames, sparks, or natural sources of ignition for spills at high temperatures, and if there is no danger, stop further spills if possible. Use a mop or absorbent material to place the spill into an appropriate container for further disposal.

Quickly evacuate people from the spill contaminated area to a safe area and isolate and strictly limit access. Cut off the source of ignition. It is recommended that emergency response personnel wear self-contained positive pressure respirators and fire protective clothing. Cut off the source of the spill as much as possible and prevent access to restricted spaces such as sewers and flood drains.

Small Spill

Adsorb or absorb with sand and soil or other non-combustible materials. Can also be made with non-combustible dispersant emulsion brushing, and the wash diluted into the wastewater system.

Large Leakage

Construct an embankment or dig a pit to receive it. Transfer to tanker or special collector with explosion-proof pump, recycle or transported to waste treatment sites for disposal.

7. Operational Disposal and Storage

Handling Precautions

Airtight operation, pay attention to ventilation. Operators must be specially trained and strictly abide by the operating procedures.

Keep away from fire and heat sources, and smoking is strictly prohibited in the workplace. Use explosion-proof ventilation system and equipment. Prevent vapors from leaking into the workplace air. Avoid contact with oxidizing agents. Handle lightly to prevent damage to packaging and containers.

Prohibit the use of spark-prone machinery and tools

Pay attention to the flow rate (not more than 3m/s) when filling and have grounding device to prevent static electricity accumulation.

Storage Precautions

Store in a cool, ventilated warehouse.

Keep away from fire and heat source. The temperature inside the warehouse should not exceed 50°C. Protect from direct sunlight. Keep the container sealed.

Store separately from oxidizers. Lighting, ventilation and other facilities in the storage room should be of explosion-proof type, and the switch should be located outside the warehouse.

Equipped with the appropriate variety and quantity of fire-fighting equipment. Barrel stacking should not be too large, and should leave wall distance, top distance, column distance and necessary fire inspection walkway.

Tank storage to have fire and explosion-proof technical measures; open storage tanks in the summer to have cooling measures.

8.Exposure Control and Personal Protection

Process Control	The production process is sealed and fully ventilated; safety showers and eye wash facilities are provided.
Inhalation	Respiratory protection Generally no special protection is needed, but the air concentration in the working environment exceeds the general situation, you should Self-absorbing filtered gas mask (half mask) should be worn.
Personal Protection	Body protection: Wear anti-static work clothes. Hand protection: Wear general work protection gloves.
Other	Smoking is strictly prohibited at the work site

9.Physical and Chemical Properties

Product Status	Grey uniform paste
Appearance and Odor	Slightly oily odor
Specific Gravity 25 °C, g/cm³	2.6
pH	N/A
Soluble in Water	N/A
Flash Point °C	>100 (closed cup)
Vapor Pressure	N/A
Evaporation Rate	N/A

10.Stability and Chemical Reaction Data

Stability	Stable
Hazardous Polymerization	Does not produce
Avoidance Measures	Strong oxidizers, acids, anhydrides, amines
Material Precautions	No
Dangers of Decomposed Substances	Formaldehyde

11.Toxicity Information

In skin tests on animals, it was found that prolonged exposure can cause skin irritation, but it is mild or moderate.
After contact with this product, if washed with water, there should be no harm, but avoid prolonged contact or inhalation of this product aerosol.

12.Ecological Information

Ecotoxicity	No data available
Environmental Degradation	No data available

13.Disposal Instructions

Disposal Method	Empty drums should be recycled, reclaimed or disposed of by qualified or licensed agencies. In all cases, care should be taken to ensure compliance with state laws and local regulations.
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14.Shipping Information

Shipping Method	Shipping by common products.
Packing Method	Plastic barrels; plastic bottles; iron barrels.
Shipping Notes	Transport vehicles should be equipped with the appropriate variety and quantity of fire-fighting equipment and leak emergency treatment Equipment. The tank (tank) used for transportation should have a grounding chain, and the tank can be equipped with a hole partition to reduce shock Generate static electricity. It is strictly forbidden to mix with oxidizers and edible chemicals. During transportation, it should be prevented from exposure to sun and rain and high temperature. When stopping in transit, it should be far away from fire, heat source and high temperature area. The exhaust pipe of the vehicle must be equipped with flame arresting device, and the use of spark-prone mechanical equipment and tools for loading and unloading is prohibited. The use of spark-prone machinery and tools for loading and unloading is prohibited.

15.Regulations Information

EU Standard Classification	Combustible Irritant; The classification of this product is based on all or part of the test data.
EU Labels	Symbol: F, Xn
Hazardous Characteristics	R65; Harmful: Can cause lung damage if swallowed accidentally. R67;Vapors can cause drowsiness and dizziness
Safety Recommendations	S43; In case of fire, use foam, dry chemical (dry powder) or carbon dioxide S9; Place containers in a well-ventilated area S16; Keep away from sources of ignition ---- Do not smoke S33; Take precautions against static electricity S36/37; Wear appropriate protective clothing and gloves S57: Use appropriate containers to avoid environmental contamination S60; The material and its container must be disposed of as hazardous waste S62; Do not induce vomiting if ingested: seek immediate medical attention and present the container or its label.

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