



MSDS

Report No.: HLF24006630E

Report Date: Jun 14, 2024

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Material Safety Data Sheet (MSDS)

Samples Name: CONCRETE HADENING AND DENSIFYING AGENT

Model: /

Item Number:/

Client Name: SHANDONG LEMAX FLOORING MATERIALS CO.,LTD

Address: 3rd Floor, Building 22, Luozhuang District Industrial Products Procurement Center, Linyi City, Shandong Province, China.

Post Code:/

scan to check the report



HLF24006630E

Authorized Signature: _____

Technology Manager

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FLION TESTING TECHNOLOGIES

Add: Gangzi Industrial Park, Furong Industrial Area, Xinqiao Village, Shajing Town, Bao'an District, Shenzhen City

Tel : 86-0755-2724 8885

Fax : 86-0755-2746 0090

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Section 1 - Chemical Product and Company Identification

Product Name: See item 3

Manufacture: Client Name: SHANDONG LEMAX FLOORING MATERIALS CO.,LTD

Address: 3rd Floor, Building 22, Luozhuang District Industrial Products Procurement Center, Linyi City, Shandong Province, China.

Contact Person: Guochao-Li

Tel: /

Fax: /

Email: /

Section 2 - Hazards Identification

Fatalness grade:

Risk category:

GHS hazard category:

Skin corrosion/Irritation Category 2

Severe eye injury/eye irritation Category 2

Specific target organ toxicity primary exposure class 3

Tag elements:

figurative graph:



Warning words: dangerous

Risk description:

H315 causes skin irritation

H318 caused a severe ocular injury

Precautions:

preventive measure:

—— Clean thoroughly after operation P264.

—— P280 wear protective gloves / protective clothing / protective eye mask / protective mask.

Accident response:

—— P302 + P352 such as skin contamination: wash fully with water.

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- P321, for specific treatment (see... on this label).
- P332 + P313 If skin irritation: visit / visit.
- P362 + P364 Take off the contaminated clothes, clean before reuse
- P305 + P351 + P338 Into the eye: rinse carefully with water for a few minutes. If wearing contact lenses and can be easily removed, remove the contact lens. Continue to rinse.
- P310 Call the detoxification center / doctor immediately

safe storage:

- not have

Waste disposal:

- not have

Invasion route:. Skin contact, eye contact, and swallowing

Health hazards:. Cause of skin irritation. Cause severe eye damage

Environment hazards:. not have

Section 3 –Composition/Information on Ingredient

Pure

Admixture

Composition:

Chemical name	The molecular formula	Molecular weight	Component ratio (%)	CAS.	EC.
Silicon dioxide	SiO ₂	60	20	7631-86-9	231-545-4
Lithium silicate	Li ₂ O ₃ Si	90	60	10102-24-6	--
Potassium silicate	K ₄ SiO ₄	248	20	1312-76-1	215-199-1

Section 4 - First Aid Measures

Give first aid treatment:

Inhalation: If inhaled, move the patient to fresh air.

Skin contact: Take off the contaminated clothes and rinse the skin thoroughly with soapy water and clean water.

Seek medical advice if you feel unwell.

Clear eye contact: Separate the eyelids and rinse with running water or normal saline. Go to a doctor immediately.

Eat: Gargle the mouth, prohibit vomiting. Go to a doctor immediately.

Advice to protect rescuers: Move patients to a safe place.ref.phys. Show this chemical safety technical manual to the doctor on the scene.

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Special note for the doctor: No data

Section 5 - Fire Fighting Measures Danger

Annihilator:

Fire fighting with water mist, dry powder, foam or carbon dioxide extinguishing agent. Avoid using straight water to extinguish the fire, which may lead to the splash of combustible liquid and spread the fire.

Especially dangerous:

Non-available

Fire-fighting precautions and protective measures:

Fire fighters must wear air respirator and fire suits to put out the fire in the upwind.

Move the container from the fire to the open as much as possible.

If the container in the fire site has changed color or sounds from the safety pressure relief device, it must be evacuated immediately.

Isolate the scene of the accident and prohibit irrelevant personnel from entering.

Receiving and treat fire water to prevent environmental pollution

Section 6 –Accidental Release Measures

Protective measures, protective equipment and emergency handling procedures for operators:

It is recommended that emergency handling personnel wear air breathing apparatus, anti-static clothes and rubber oil-resistant gloves.

No contact or crossing of leaks.

All equipment used in the operation shall be grounded.

Cut off the leak source as much as possible. Eliminate all ignition sources.

Draw up the warning area according to the affected area of liquid flow, steam or dust diffusion, and the irrelevant personnel shall evacuate from the side wind and upwind direction to the safe area.

Environmental protection measures: Shelter the leaks to avoid environmental pollution. Prevent leaks from entering sewers, surface water, and groundwater.

Reception and removal methods of leaking chemicals and disposal materials used:

Small leakage: Collect the leaking liquid in an airtight container as much as possible. Absorbed with sand, activated carbon or other inert materials and transferred to a safe place. No flushing into the sewer.

Mass leakage: building embankments or digging holes for shelter. Close the drainage pipes. Cover with foam to suppress evaporation. Transfer with an explosion-proof pump to the tanker or special collector, recycling or

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transport to the waste disposal site for disposal.

Section 7 - Handling and Storage

Handling: Provide adequate ventilation. The operator must go through specialized training, strictly abide by the rules. It is suggested that operators wear masks, wearing overalls, wearing gloves. Keep away from fire, heat, smoking is prohibited in the workplace. Avoid dust. Use of ventilation system and equipment. Avoid oxidant and acid contact. Equipped with the appropriate variety and quantity the fire equipment and emergency treatment equipment. The empty containers may be left harmful.

Storage: Store in a cool, ventilated warehouse. Stay away from fire and heat. Should be kept separate from the oxidant and acid, avoid mixing reservoir. With the corresponding variety and quantity of fire equipment. The storage area should be equipped with emergency treatment equipment and proper acceptance materials.

Section 8 - Exposure Controls, Personal Protection

Maximum allowable concentration:

Monitoring method: /

Engineering control:

Worksites are recommended to be separated from other workplaces.

Closed operation to prevent leakage.

Strengthen ventilation.

Set up the automatic alarm device and the accident ventilation facilities.

Set up emergency evacuation channels and necessary evacuation areas.

Set up the red area warning line, warning mark and Chinese warning instructions, and set up the communication alarm system.

Provide safe shower and eye washing equipment.

Personal protective equipment:

Respiratory system protection: when the air concentration exceeds the standard, wear a filter gas mask (half mask). For emergency rescue or evacuation, a portable air breathing apparatus should be worn.

Hand protection: wear rubber and oil-resistant gloves.

Eye protection: Wear chemical safety protection for the eyes.

Skin and body protection: wear poison overalls.

Section 9 - Physical and Chemical Properties

Appearance: No data

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Color: No data

Odor: No data

Density: No data

Boiling Point: No data.

Melting Point: No data

Flashpoint: No data

Vapour pressure: No data.

Solubility in water: No data

Partition coefficient (n-octanol / water): No data.

Viscosity: Not applicable

PH Value: No data

Permission of solvent inhalation: No data.

Solubility: No data

Ignition temperature: No data

Section 10 - Stability and Reactivity

Stability: Stable under normal conditions.

Distribution of Ban: Not have

Conditions to Avoid: Electrostatic discharge, heat, damp, etc

Hazardous Polymerization: No data

Hazardous Decomposition Products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11 - Toxicological Information

Acute Toxicity:

potassium metasilicate:

Oral: LD50-rat (female) -> 5 000 mg / kgbw. Remarks: No effects on body weight. All animals were active and healthy throughout the experiment. At necropsy, no gross abnormalities were found.

Inhalation: LC50-rat (male / female) -> 2.06 mg/L air (analytical).

Percutaneous: LD50-rat (male / female) -> 5 000 mg / kg bw.

Sub-acute and Chronic Toxicity: No data.

Irritation: No data.

Sensitization: No data.

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Mutagenicity: No data.

Carcinogenicity: No data.

Others: / .

Section 12 - Ecological Information

Eco-toxicity:

potassium metasilicate:

Acute toxicity test in fish: LC0-Leuciscus idus-146 mg / L-48 h.

Acute activity inhibition test: EC0-Daphnia magna-146 mg / L-24 h.

Algal growth inhibition test: EC50-Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) -207 mg / L-72 h.

Toxicity to microorganisms: EC0-Pseudomonas putida-> 3 480 mg / L-18 h.

Biodegradable: No applicable.

Non-biodegradable: No applicable.

Bioconcentration or biological accumulation: No applicable.

Other harmful effects: No known significant effects or critical hazards.

Section 13 - Disposal Considerations

Waste chemicals:

Recycling it as much as possible.

If it cannot be recycled, use the incineration method for disposal.

The product shall not be discarded by discharge into the sewer.

Pollution packaging:

Return the containers to the manufacturer or dispose of them under national and local regulations.

Waste considerations:

Relevant national and local regulations shall be referred to before waste disposal.

Safety precautions for disposal personnel are described in Part 8

Section 14 - Transport Information

Number of dangerous goods: No applicable.

UN Number: No data.

Packaging Mark: No data.

Packaging Method: No data.

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Transport Attentions:

Transport vehicles shall be equipped with corresponding varieties and quantity of fire fighting equipment and leakage emergency treatment equipment.

It is strictly prohibited to mix and transport with oxidants and edible chemicals.

The vehicle exhaust pipe carrying the item must be equipped with a fire resistance device.

When using the tank (tank) vehicle, there should be a grounding chain, and the hole partition can be set in the tank to reduce the static electricity generated by shock.

Do not use mechanical equipment and tools that are easy to generate sparks.

Morning and evening transportation is best in summer.

Transportation should be prevented from exposure, rain, to prevent high temperature.

Halover should be far away from fire, heat source and high temperature area.

Highway transport should be driven according to the prescribed routes, do not stay in residential areas and densely populated areas.

Saway should be prohibited during railway transport.

Bulk transport is strictly prohibited by wooden ships and cement ships.

Hazard signs and announcements shall be posted on the means of transport according to the relevant transport requirements.

Section 15 - Regulatory Information

Regulatory Information:

ISO 11014-2009 Safety data sheet for chemical products - Content and order of sections.

Regulation (EC) No.1272/2008 Classification, Labeling and Packaging of Substances and Mixtures.

IATA Dangerous Goods Rules 65 (2024),

Rules for Marine Dangerous Goods (Amdt. 41-22).

Section 16 - Additional Information

The above information is based on the data of which we are aware and is believed to be correct as of the data hereof. Since this information may be applied under conditions beyond our control and with which may be unfamiliar and since data made available subsequent to the data hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

*****End of MSDS*****

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