

MATERIAL SAFETY DATA SHEET

(GB/T 16483-2008 & GB/T 17519-2013)

Product name: Silicone sealant
Revision Date: 20/03/2026
Version: 1.0

MSDS Number: SDS202603206161
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1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY/UNDERTAKING

Product identifier

Product name : Silicone sealant

Recommended use of the chemical and restrictions on use

Identified use : Construction and decoration

Details of the supplier of the safety data sheet

Fengliyuan new building materials (Yantai) Co., Ltd.
West end of Zhengtong Street, Shiliang Town,
Longkou City, Yantai City, Shandong Province,
265707, China.

Emergency telephone number

Tel: +86-18654811031, or contact your local
emergency telephone number.

Product Information

Tel: +86-18654811031

2. HAZARDS IDENTIFICATION

Emergency Overview

Suspected of causing genetic defects. May cause an allergic skin reaction. Cause serious eye irritation. Move to fresh air. If on skin, wash off with soap and plenty of water. In case of eye contact, rinse immediately with plenty of water and seek medical advice. Rinse mouth with water. Consult a physician. Show this safety data sheet to the doctor in attendance.

GHS-Classification- China standards(GB30000-2013)

Serious eye damage/eye irritation : Category 2

Germ cell mutagenicity : Category 2

Reproductive toxicity : Category 1

GHS-Labelling- China standards(GB30000-2013)

Hazard pictograms :



Signal word : Danger

Hazard statements : H319 Causes serious eye irritation.
H341 Suspected of causing genetic defects.
H360 May damage fertility or the unborn child.



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Precautionary statements

Prevention:

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash skin thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of water.
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
P308 + P313 IF exposed or concerned: Get medical advice/attention.
P333 + P313 If eye irritation occurs: Get medical advice/attention.
P321 Specific treatment (see ... on this label).
P332 + P313 If skin irritation occurs: Get medical advice/attention.
P337 + P313 If eye irritation persists: Get medical advice/attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Physical and chemical hazards

Not classified based on available information.

Health hazards

Suspected of causing genetic defects.
May damage fertility or the unborn child.
Causes serious eye irritation.



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Environmental hazards

Not classified based on available information.

Other hazards which do not result in classification

No data available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Product type : Mixture
Hazardous components

Chemical name	CAS-No.	Concentration(%)
Organic Silicone	63148-52-7	50
Inorganic Filler	471-34-1	35
Cross-linking agent	52234-82-9	8
Silane coupling agent	211519-85-6	6
Dibutyltin Dilaurate	77-58-7	1

4. FIRST AID MEASURES

- General advice : Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.
- If inhaled : Move to fresh air.
If unconscious place in recovery position and seek medical advice.
If symptoms persist, call a physician.
- In case of skin contact : If on skin, wash off with soap and plenty of water.
Wash contaminated clothing before re-use.
If symptoms persist, call a physician.
- In case of eye contact : Immediately flush eyes with clear water for at least 15 minutes.
Remove contact lenses.
Protect unharmed eye.
If symptoms persist, call a physician.
- If swallowed : Get medical attention immediately.
Rinse mouth with water.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.

Notes to physician

- Symptoms : The most important known symptoms and effects are described in the labelling (see section 2)



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Treatment : No hazards which require special first aid measures.

5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : There is no explosion or fire hazard.
Decomposition products may include the following materials:
Carbon oxides, Tin/tin oxides.
Development of hazardous combustion gases or vapours possible in the event of fire.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
- Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Use personal protective equipment.
Ensure adequate ventilation.
Avoid contact with eyes, skin and clothes.
Avoid breathing vapour/gas/mist.
Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.
- Environmental precautions : Prevent product from entering soil, drains and waterways.
- Methods for cleaning up : Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.
- Additional advice : Comply with all applicable national and local regulations.

7. HANDLING AND STORAGE

Handling



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Advice on safe handling : Avoid contact with skin and eyes.
Avoid inhalation of dust, vapour or mist.
Avoid exposure - obtain special instructions before use.
Smoking, eating and drinking should be prohibited in the application area.
For personal protection see section 8.
Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Normal fire protective measure.

Storage

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place.
Materials to avoid : Strong oxidizing agent.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no ingredients with known occupational exposure limits.

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
				GBZ 2.1-2019

Engineering measures

Handle in accordance with good industrial hygiene and safety practice.

Personal protective equipment

Respiratory protection : Required when dusts/vapours/aerosols are generated.

Hand protection : Wear protective/Chemical-resistant gloves(Chloroprene/Nitrile rubber) if needed.
Discard gloves that show tears, pinholes, or signs of wear.

Eye protection : Use safety glasses with side-shields if needed.

Skin and body protection : Chemical resistant apron and safety shoes.
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : Wash hands before breaks and at the end of workday.
When using do not eat or drink.
When using do not smoke.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state	: Cream
Color	: Black
Odor	: Weak odor
Odor Threshold	: No data available

Safety data

Flash point	: Does not flash
Ignition temperature	: No data available
Lower explosion limit	: Not explosive
Upper explosion limit	: Not explosive
Flammability (solid, gas)	: Non flammable
Oxidizing properties	: Not an oxidizer
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Molecular weight	: No data available
pH	: Not applicable
Melting point/freezing point	: No data available
Boiling point	: No data available
Sublimation point	: No data available
Vapour pressure	: No data available
Density	: No data available
Bulk density	: No data available
Water solubility	: No data available
Partition coefficient: n-octanol/water	: No data available
Solubility in other solvents	: No data available
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Flow time	: No data available
Impact sensitivity	: No data available
Relative vapour density	: No data available
Surface tension	: No data available
Evaporation rate	: No data available

10. STABILITY AND REACTIVITY



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Hazardous reactions : This product is non-reactive under normal use, storage and transport conditions.

Chemical stability : Stable under recommend storage condition.

Conditions to avoid : Strong heating.

Materials to avoid : Strong oxidizing agents.

Hazardous decomposition products : Hazardous decomposition products formed under fire conditions.
- Carbon oxide, tin/tin oxides.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

Dibutyltin Dilaurate:

Acute toxicity(oral) : LD50 Oral - Rat - male and female - 2,071 mg/kg
(OECD Test Guideline 401).

Acute toxicity(dermal) : LD50 Dermal - Rat - male and female - > 2,000 mg/kg
(OECD Test Guideline 402)

Acute toxicity(inhalation) : No data available

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Causes serious eye irritation.

Dibutyltin Dilaurate:

Eyes - Rabbit

Result: Severe irritations

(OECD Test Guideline 405)

Respiratory or skin sensitisation

Skin sensitization

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Suspected of causing cancer.



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Reproductive toxicity

May damage fertility or the unborn child.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicology Assessment

Acute aquatic toxicity : Not classified based on available information.

Chronic aquatic toxicity : Not classified based on available information.

Dibutyltin Dilaurate:

Toxicity to fish : static test LC50 - Danio rerio (zebra fish) - 21.2 mg/l - 96 h
(OECD Test Guideline 203).

Toxicity to daphnia and other aquatic invertebrates : static test EC50 - Daphnia magna (Water flea) - 1.7 - 3.4 mg/l
48h(OECD Test Guideline 202)
Remarks: (ECHA).

Toxicity to algae : static test ErC50 - Desmodesmus subspicatus (green algae)
> 1mg/l - 72 h
(OECD Test Guideline 201)
Remarks: (highest concentration to be prepared)

Persistence and degradability

Dibutyltin Dilaurate:

Biodegradability : anaerobic - Exposure time 39 d
Result: 23 % - Not readily biodegradable.
(OECD Test Guideline 301F)

Bioaccumulative potential

Partition coefficient: n-octanol/water : No data available

Mobility in soil

No data available



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13. DISPOSAL CONSIDERATIONS

Disposal methods

General advice : Dispose of in accordance with all applicable local, state and federal regulations.

14. TRANSPORT INFORMATION

International transport regulations

GROUND TRANSPORT (China Road, JT/T 617-2018)

UN Number: not regulated/non-dangerous goods
Proper Shipping Name: N/A
Hazard classes: N/A
Packaging group: N/A

SEA TRANSPORT/INTERNATIONAL MARITIME DANGEROUS GOODS(IMDG Code, 2024 Edition Amendment 42-24)

UN Number: not regulated/non-dangerous goods
Proper Shipping Name: N/A
Hazard classes: N/A
Packaging group: N/A

AIR TRANSPORT/INTERNATIONAL AIR TRANSPORT ASSOCIATION(IATA DGR, 67th Edition)

UN Number: not regulated/non-dangerous goods
Proper Shipping Name: N/A
Hazard classes: N/A
Packaging group: N/A

15. REGULATORY INFORMATION

Regulations on the Control over Safety of Dangerous Chemicals (Decree No. 591 of the State Council of the People's Republic of China)

General rules for preparation of chemical safety data sheet (GB16483-2008)

Guidance on the compilation of safety data sheet for chemical products(GB/T 17519-2013)

Rules for classification and labelling of chemicals(GB30000-2013)

List of dangerous goods (GB12268-2012)

Classification and code of dangerous goods (GB6944-2012)

Occupational exposure limits for hazardous agents in the workplace - Part 1: Chemical hazardous agents(GBZ 2.1-2019)



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16. OTHER INFORMATION

Further information

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Disclaimer:

This MSDS is intended to provide a brief summary of our knowledge and guidance regarding the use of this material. The information contained here has been compiled from sources considered by us to be dependable and is accurate to the best of our knowledge. It is not meant to be an all-inclusive document on worldwide hazard communication regulations.

This information is offered in good faith. Each user of this material needs to evaluate the conditions of use and design the appropriate protective mechanisms to prevent employee exposures, property damage or release to the environment. We assumed no responsibility for injury to the recipient or third persons, or for any damage to any property resulting from misuse of the product.

****End of Material Safety Data Sheet*****