

Material Safety Data Sheet



Effective Date: Feb-2022

Version: 1.01

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1. PRODUCT AND COMPANY INFORMATION

Product name: One Component Modified Silane Adhesive Sealant
Other name: MS adhesive sealant
Manufacturer: Pegus Systems
Address: 990 Decker, Walled Lake, MI 48390
Zip code:
Fax number:
Emergency contact number: 1 248 716 9705

2. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Product name: One Component Modified Silane Adhesive Sealant

Composition	Content	CAS No.
Modified silane polyether polymer	10-30%	75009-88-0
Polyether polyol	5-20%	9003-11-6
Diisononyl phthalate	5-20%	28553-12-0
Calcium carbonate	40-60%	471-34-1
Silane coupling agent	1-5%	2768-02-7
Catalyst	< 0.1%	61791-53-5

3. HAZARDS CONCEPTS

Emergencies improved:

Hazard category: Not included in the "Inventory of Hazardous Chemicals" or "Inventory of Dangerous Goods"

Routes of absorption: inhalation, ingestion, skin absorption

Health hazards:

Eye contact: Slightly irritating.

Skin: Prolonged and repeated exposure may cause dermatitis.

Accidental ingestion: Burning sensation in the lips and throat after oral administration, followed by dry mouth and vomiting.

Environmental hazard: The substance is slightly harmful to the environment, and gradually reacts into a solid when it meets water.

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Explosion hazard: flammable, there is a danger of burning in case of open flame or high heat.

4. FIRST AID MEASURES

General advice : Keep out of danger area. Consult a doctor. Show this safety data sheet to the doctor on site.

Inhalation : Remove to fresh air. After heavy exposure, consult a physician.

Skin contact : Take off contaminated clothing and shoes immediately. Wash with soap and plenty of water.

If symptoms persist, seek medical attention.

Eye contact : Remove contact lenses. Keep eyes open while rinsing. Get medical attention if eye irritation persists.

5. FIRE FIGHTING MEASURES

Hazardous characteristics: In case of open fire or high heat, it will cause combustion and explosion. In case of high heat, the internal pressure of the container will increase, and there is a danger of cracking and explosion.

Harmful combustion products: CO, CO₂, NO_x and other harmful gases.

Fire extinguishing method: Use foam, dry powder, carbon dioxide, sand, etc. to fight the fire.

6. ACCIDENTAL RELEASE MEASURES

Emergency treatment: Surround it with solid objects such as sand or soil to prevent it from spreading and prevent liquid from flowing into sewers, water networks or low-lying areas. Flush spilled area with water to allow rapid cure. Eliminate ignition sources and avoid breathing vapours. Absorb with sand or other similar material.

Dispose of waste according to relevant local laws and regulations, and ensure compliance with local waste disposal regulations.

See Section 4 "First Aid Measures" and Section 10 "Stability and Reactivity".

7. OPERATION HANDLING AND STORAGE

Handling Precautions: Keep away from fire, heat sources, and smoking is strictly prohibited in the workplace. Use explosion-proof ventilation systems and equipment. It is recommended that operators wear chemical safety goggles, impermeable overalls and ordinary impermeable gloves. Use respiratory protection in inadequately ventilated work areas.

Precautions for storage: The product should be stored in a cool, dry and ventilated place. Because of its hygroscopicity, do not directly contact with the air. When not in use, the container should be sealed to prevent moisture from entering. If necessary, in order to prevent the solidification of the material, nitrogen can be used for storage. storage

Temperature: room temperature

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Maximum allowable concentration: no information

Monitoring method: visual inspection.

Engineering control: Ventilate during the production process and strengthen ventilation.

Respiratory protection: Use respiratory protection in inadequately ventilated work areas.

Eye protection: Wear chemical safety goggles.

Body protection: wear anti-static overalls.

Hand protection: Wear ordinary anti-penetration gloves.

Other protection: Smoking is strictly prohibited at the work site. After work, take a shower. Conduct pre-employment and regular physical examinations.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and properties: paste.

Color: black/white/grey

Odor: odorless

pH: 7-9

Melting point (°C): no information

Boiling point (°C): no information

Flash point (° C): >100

Relative density (water=1): about $1.5 \pm 0.1 \text{g/cm}^3$ (25° C)

Relative vapor density (air=1): no information available

Saturation vapor pressure (kPa): no information available

Heat of combustion (kJ/mol): no information

Critical temperature (°C): no information

Critical pressure (MPa): no information

Log value of octanol/water partition coefficient: no information available

Upper limit of explosion % (V/V): meaningless

Lower explosion limit % (V/V): meaningless

Solubility: Insoluble in water, reacts with water

Main application: Suitable for various substrates, bonding, sealing and waterproofing.

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10. STABILITY AND REACTIVITY

Stability: Stable

Incompatibility: water, strong acid, strong alkali.

Conditions to avoid: open flames, high temperature, high humidity.

Polymerization hazard: It can occur and polymerize with water in the air to form an elastomer.

Decomposition products: CO, CO₂, NO_x and other harmful gases.

11. TOXICOLOGICAL INFORMATION

Acute toxicity: LD50: No information available

LC50: no information

Subacute and Chronic Toxicity: No information available

Irritation: no information Sensitization: no

information Mutagenicity: no information

available Teratogenicity: no information

available Carcinogenicity: no information

available

12. ECOLOGICAL INFORMATION

Ecotoxicology toxicity: no information available

Biodegradability: After fully cured, it has good aging resistance and is not easy to degrade.

Non-biodegradability: not easy to degrade

Bioaccumulation or Bioaccumulation: no information available

Other adverse effects: no information available

13. DISPOSAL CONSIDERATIONS

Waste nature: no information

Waste disposal measure: control incineration disposal.

Disposal precautions: no information

14. TRANSPORT INFORMATION

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Dangerous goods number: no information

UN number: no information available

Packaging mark: no information

Packing category: no information

Packing method: galvanized iron drum

Land transportation: transported by general cargo

Sea freight: transported by general cargo

Air freight: as general chemical transport

Transportation precautions:

1. The product has obvious and firm marks on the package, including: product name, manufacturer name, batch number or production date, net weight, grade, etc.
2. During transportation, the product should be strictly protected from rain and contamination, and should be handled with care to avoid collision with hard objects and leakage.
3. The product should be stored in a cool, dry and ventilated place, and the storage period is nine months. The product has a shelf life of nine months from the date of production under the conditions of packaging, transportation and storage that meet the provisions of this standard. Products beyond the shelf life should be re-inspected, and can still be used after passing the inspection.

15. REGULATORY INFORMATION

Regulatory information: the following laws, regulations and standards, the safe use, storage, transportation, handling, classification and marking of chemicals, etc.

Corresponding provisions have been made in respect of:

"Safe Production Law of the People's Republic of China" (enforced on December 1, 2014);

"Law of the People's Republic of China on Prevention and Control of Occupational Diseases" (enforced on December 31, 2011);

"Environmental Protection Law of the People's Republic of China" (implemented on January 1, 2015);

"Regulations on the Safety Management of Hazardous Chemicals" (implemented on December 07, 2013);

"General Rules for Classification and Hazard Communication of Chemicals" (GB 13690-2009);

"Inventory of Hazardous Chemicals" (2015 Edition).

16. OTHER INFORMATION

References:

1. Zhou Guotai, The Complete Book of Chemical Hazardous Materials Safety Technology, Chemical Industry Press,

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1997.

2. Environmental Data Handbook on Chemical Toxicity Regulations, co-edited by the Office of Toxic Chemicals Management of the State Environmental Protection Administration and the Beijing Research Institute of Chemical Technology, China Environmental Science Publishing House, 1992.

Fill in the form Department: PEGUS SYSTEMS

Fill in time: February 25, 2022

Revision Note: Revision 1

Other information: This information only applies to the specified substance, and may not apply to the substance after mixing with other substances or in use. The above information is based on current knowledge and experience. This Safety Data Sheet is intended to describe the safety guidelines for the product and is not a guarantee of the nature of the product.
