

Material Safety Data Sheet (MSDS)

1. Product Name

Water-Based Black Sealant PB 951_水性黑色封闭剂 PB 951

2. Composition / Information on Ingredients

Ingredient	CAS No.	Weight Percentage
Polyethylene Emulsion	9002-88-4	50%
Nano Silicon Dioxide	60676-86-0	15%
Surfactant	N/A	5%
Color Paste	N/A	10%
Water	7732-18-5	20%

3. Hazards Identification

Hazard Classification: Does not meet hazard classification criteria

Fire & Explosion Risk: Non-flammable and non-explosive; no special hazards under normal use

Environmental Hazard: Harmful to the environment, with particular risk of water pollution

Health Hazards: Direct contact with eyes or skin without timely treatment may cause mild inflammation; inhalation will cause soreness in the nose, throat and bronchi.

4. First-Aid Measures

Eye Contact

Immediately flush eyes with running clean water for 15 minutes. Hold eyelids open with fingers to ensure full flushing of eyeballs and inner eyelid surfaces. Seek ophthalmic medical treatment promptly if discomfort arises due to delayed or insufficient washing.

Skin Contact

Wipe off excess liquid quickly with tissue or cloth, then rinse thoroughly with plenty of running water or skin cleanser. Remove contaminated clothing and footwear and rinse thoroughly. In case of heavy splashing, rinse skin before removing garments. Consult a doctor promptly if skin irritation occurs from inadequate cleaning.

Ingestion

Rinse mouth with clean water at once. If possible, give the victim milk mixed with egg white to form a protective film on the mucous membranes of throat, esophagus and stomach to reduce chemical burns and penetration. Hospital gastric lavage shall be performed when necessary.

Massive Inhalation

Remove the victim to fresh air for rest, then transfer to hospital for further treatment.

5. Fire-Fighting Measures

Suitable Extinguishing Media

Water, foam fire extinguishers, dry powder fire extinguishers, carbon dioxide fire extinguishers, sand, etc.

Unsuitable Extinguishing Media: None

Fire Response Instructions

Cut off all ignition sources immediately when surrounding fire occurs. Relocate containers to a safe area if feasible. Maintain a safe distance during fire suppression; firefighters must wear full protective clothing.

6. Accidental Release Measures

Isolate the spill site and bar access to irrelevant personnel. Identify the leakage source to stop further outflow and wear full protective equipment during cleanup.

- Minor spills: Wipe up with cloth, absorb residual liquid with soil then rinse with water.
- Major spills: Use sandbags to contain liquid spread, pump recoverable liquid into corrosion-resistant containers. Rinse unrecoverable residues with water. Dilute residual solution and wastewater appropriately, neutralize with alkaline substances such as slaked lime or sodium hydroxide to the specified pH range before discharge. Direct discharge is forbidden to avoid environmental pollution.

7. Handling and Storage

Handling Precautions

Avoid splashing liquid onto eyes and skin. Fully wash hands, face and other exposed parts after operation. Sufficient clean water shall be available on-site for emergency use; ensure adequate ventilation in the workplace.

Storage Precautions

Store containers in cool, shaded, well-ventilated areas away from direct sunlight and high-temperature zones. Separate from strong acids, strong alkalis, oxidants and reducing agents. Stack containers with a maximum of two layers to prevent packaging rupture or damage. Keep lids tightly sealed and avoid long-term storage. Prepare ample clean water at storage areas for emergency response.

8. Exposure Controls / Personal Protection

Ventilation

Provide sufficient air exchange and good ventilation at workstations.

Auxiliary Facilities

Install washing stations and cleaning equipment near operation areas for post-work cleaning of hands and face.

Personal Protective Equipment

- Eye & Face Protection: Safety goggles and face shield may be worn as required (not mandatory for routine operation)
- Skin Protection: Proper rubber gloves, rubber boots
- Respiratory Protection: Gas mask

Other Requirements

Smoking and eating are prohibited in work areas. Shower and change work clothes after finishing work.

9. Physical and Chemical Properties

- Appearance: Black emulsion
- Odor: No obvious irritating odor
- Boiling Point: 100 °C
- Flash Point: >100 °C
- Density (23°C): 0.98 – 1.0 g/cm³
- Viscosity (23°C): 25 – 170 seconds
- pH Value (Undiluted): 8.5 – 9.5
- Solubility: Easily soluble in water

10. Stability and Reactivity

- Flammability: Stable under normal use; non-flammable aqueous solution
- Flash Point: Non-flammable
- Ignition Point: Non-combustible
- Explosion Risk: Non-explosive
- Chemical Stability: Stable under normal operating conditions
- Hazardous Decomposition Products: None
- Incompatibility Hazards: None
- Irritation: Mild irritant
- Corrosivity: Non-corrosive

11. Toxicological Information

(Same as above Section 10 irritation & corrosivity description)

12. Ecological Information

No test data available

13. Disposal Considerations

Disposal Method

Treat wastewater in compliance with hazardous waste treatment standards before discharge. Dilute stock solution and concentrated waste liquid then neutralize with alkali, or entrust disposal to professional hazardous waste treatment agencies.

Disposal Notes

Waste must be disposed of properly; random dumping is forbidden to prevent environmental contamination.

14. Transport Information

- Domestic Hazard Classification: Non-hazardous liquid
- UN Number: 3098
- Packing Group: III
- Packaging Label: Non-corrosive, no hazard label required

15. Regulatory Information

Applicable National Regulation: Catalogue of Hazardous Chemicals (2002 Version) issued by State Administration of Work Safety

16. Other Information

All information contained in this MSDS is provided by Somei company. Users shall reference the above data in combination with actual operating conditions.