


PERFLEX NOVEL MATERIALS(CHANGSHA)CO.,LTD
TEL: 86 1839099 2093 MAIL: sales@perflex.com.cn
WEB: www.perflexpolyasaprtic.com
www.perflexgroup.com www.perflextilegrout.com

POLYASPARTIC COATING PIONEER

# SAFETY DATA SHEET

***According to Regulation (EC) NO.WH21110050***

Brick-smashing-free Polyaspartic Polyurea Waterproof Repair Varnish

**Version 1.0**

**Issue date: 06/10/2021**

**Revision date: 01/01/2022**

## Section 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**1.1 Product identifier:**

**Product name**: Brick-smashing-free Polyaspartic Polyurea Waterproof Repair Varnish

**Additional identification:** PW800 (Part A)

**Product recommendation and restricted use**: It is used for coating and decorating the surface of metal, tile, concrete and other substrates.

**1.2 Details of the supplier of the safety data sheet:**

| | |
|---|---|
| Supplier(Only representative): | Chemical Inspection & Regulation Service Limited |
| Supplier(Manufacturer): | Changsha Perflex Novel Materials Co.,Ltd |
| Address: | Baofeng Industrial Zone, Shashi County, Liuyang, Changsha City, Hunan, China |
| Contact person(E-mail): | Laura (sales@perflex.com.cn) |
| Telephone: | +86-183-9099-2093 |
| Fax: | +86-731-83307125 |

**1.3 Emergency telephone Number:**

+86 183 9099 2093 (Only available during office hours (8:30a.m.-17:30p.m.)

Available outside office hours? YES ☐ NO ☒

## Section 2. OVERVIEW OF HAZARDS

**GHS hazard category:** non-hazardous chemicals

**Hazard description:** non-hazardous chemicals

**Label elements:**

**Pictogram:**



**Explosion hazard:** this product is not flammable

**Health hazards:**

**Invasion route:** inhalation, ingestion, transdermal absorption




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**Eye contact:** May be irritating to eyes

**Skin contact:** may cause skin allergic reactions or dry skin to susceptible persons

**Inhalation:** It may be irritating to the respiratory tract. Inhalation of high concentration of this product may cause tearing, sore throat, cough, chest tightness, and shortness of breath. In severe cases, symptoms of heart blood and nervous system may occur.

**Environmental hazards:** This substance may be harmful to the environment, and special attention should be paid to the pollution of water bodies.

## Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Single substance/mixture** Mixture

| Chemical Substance Name | CAS NO | Concentration or Concentration Range |
|---|---|---|
| Aspartate | 136210-30-5 | 70-85% |
| Silane coupling agent | 2530-83-8 | 2-3 |
| PGDA | 623-84-7 | 5-15 |

## Section 4. FIRST AID MEASURES

**First aid:**

**Skin contact:** Take off contaminated clothes and wash skin thoroughly with soap and water. Seek medical attention if you feel unwell.

**Eye contact:** Lift the eyelid and rinse immediately with running water or normal saline. If discomfort persists, seek medical advice.

**Inhalation:** Leave the scene quickly to a place with fresh air. If breathing is difficult, give oxygen. Seek medical attention if you feel unwell.

**Ingestion:** If the patient is awake, drink some warm water to induce vomiting. Seek medical attention. Acute and delayed effects and main symptoms: redness, swelling, pain and tearing of the eyes; redness and itching of the skin; inhalation can cause coughing, chest tightness, etc.

## Section 5. FIRE FIGHTING MEASURES

**Hazardous characteristics:** This product is not flammable and may ignite with open flames and oxidants.

**Fire extinguishing methods:** suffocation method, cooling method.

**Fire extinguishing agent:** fire extinguisher, alcohol-resistant foam, dry powder,carbon dioxide, sand.

**Fire extinguishing agent:** fire extinguisher, alcohol-resistant foam, dry powder,sand.

**Fire extinguishing precautions and measures:** Firefighters must wear air breathing apparatus, full body fire and gas-proof clothing and extinguish the fire in the upwind direction.

## Section 6. EMERGENCY RESPONSE TO LEAKAGE

**Protective measures, protective equipment and emergency treatment procedures for operators:** isolate the leaking contaminated area and restrict access. Eliminate all ignition sources. It is recommended that emergency response personnel wear gas masks and gas-protective clothing. Do not touch or cross the spill. Use anti-sparking tools for work.




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**Environmental protection measures:** prevent leakage or fire extinguishing wastewater from entering the water environment.

**The containment and cleaning methods of the spilled chemicals and the processing materials used:** sweep or shovel the spilled substances into covered containers.

**Preventive measures to prevent secondary hazards:** avoid the production of harmful substances.

## Section 7. HANDLING AND STORAGE

**Handling:** prohibit the use of spark-prone machinery and tools, keep away from fire and heat sources, and prohibit smoking in the workplace. When filling, staff should wear anti-toxic masks and benzene and oil resistant gloves. When transporting, pack and unpack lightly to prevent damage to packaging and containers.

**Storage:** Store in a cool, ventilated room. Keep away from fire and heat sources. Store separately from oxidising agents. The lighting and ventilation in the warehouse should be explosion-proof and the switch should be located outside the warehouse. Provide the appropriate type and quantity of fire-fighting equipment. Barrel stacks should not be too large, and the necessary fire check aisles should be left between walls, tops and columns. There should be technical measures for fire and explosion prevention when storing tanks. Open storage tanks should have cooling measures in summer.

## Section 8. Exposure Control/Personal Protection

**Engineering measures:** Provide proper ventilation facilities. The feasible method in practice is to use good comprehensive ventilation while local air intake and ventilation. Even when the ventilation is good, the painting operator should wear self-contained air breathing apparatus. For other operations, if the above measures still fail to keep the product concentration and solvent vapor below the occupational exposure limit, you must wear appropriate respiratory equipment. (Refer to personal protection).

| Ingredient name | Occupational exposure limit |
|---|---|
| Polyaspartic acid ester resin | No relevant national standards |

**Detection method**: gas chromatography.

**Respiratory protection:** Wear a gas mask (half mask) when possible exposure to vapors. Emergency rescue or evacuation，it is recommended to wear air respirators.

**Eye protection:** Wear chemical safety goggles.

**Body protection:** Wear anti-static overalls. Wash contaminated clothing before reuse.

**Hand protection:** Wear benzene and oil resistant gloves.

**Others:** It is forbidden to suck and swallow at the work site. Shower and change clothes after work, and maintain good hygiene habits.

## Section 9. STABILITY AND REACTIVITY

**Stability:** stable

**Hazards of aggregation:** No Aggregation

**Contraindications:** Strong oxidants, strong acids, alkalis.

**Conditions to avoid:** Open flame, high heat

**Combustion (decomposition) products:** carbon monoxide, carbon dioxide, etc.




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## Section 10. TOXICOLOGICAL INFORMATION

**Acute poisoning**: headache, dizziness, nausea, vomiting and other discomforts.
**Skin irritation or Corrosion:** Slightly irritating to skin.
**Eye irritation or corrosion:** Mildly irritating to eyes.
**Respiratory or skin sensitization:** May cause skin sensitization in susceptible individuals.
Irritant: No detailed data, mild irritation.

## Section 11. DISPOSAL

**Products:** Hand over to a qualified hazardous waste treatment company for disposal by incineration.
**Unclean packaging:** Return the emptied container to the manufacturer or dispose of in accordance with local regulations.
**DISPOSAL CONSIDERATIONS:** Do not form dust when handling empty containers during collection, transport and disposal. When incinerating, pay attention to prevent secondary pollution, and treat the exhaust gas before it is discharged.

## Section 12. SHIPPING INFORMATION

**Packaging category:** general cargo packaging
**Packaging mark:** Ordinary Cargo Packaging
**Marine pollutants:** Yes
**Transportation precautions:** To prevent sun exposure, it should be driven according to the prescribed route. When transporting, the transport vehicle shall be equipped with fire-fighting equipment and leakage emergency treatment equipment of the corresponding variety and quantity.