HN-QB2525

Material Safety Data Sheet

Water-based polymer dispersion / HN-QB2525 / MSDS

01 Product and Company Identification

Trade Name	HN-QB2525
Chemical Name	Waterborne Hydroxyl-Functional Styrene-Acrylic Dispersion
Recommended Use	Two-component waterborne industrial baking coatings, metal baking coatings and thick-film protective coatings
Company	Qingdao Highonour Chemical Tech Co., Ltd.
Address	No. 3 Haiwan Road, Xinhe Ecological Chemical Industrial Base, Pingdu, Qingdao, Shandong, China
Postal Code	266799
E-mail	business@highonour.com
Website	www.hhonour.com

02 Hazards Identification

GHS Classification	Skin Sensitization Category 1; Hazardous to the Aquatic Environment – Acute Category 3, Chronic Category 3
Signal Word	Warning
Hazard Statements	May cause an allergic skin reaction. Harmful to aquatic life with long lasting effects.
Precautionary Statements	Avoid breathing spray and contact with skin and eyes. Wear protective gloves and wash thoroughly after handling. Contaminated work clothing should not leave the workplace. Avoid release to the environment.
Routes of Exposure	Eye contact, skin contact, inhalation and ingestion.
Health Hazards	Eye contact may cause irritation. Prolonged or repeated skin contact may cause mild irritation or sensitization.
Fire and Explosion Hazards	Water-borne polymer dispersion; not readily flammable under normal conditions.

03 Composition / Information on Ingredients

Substance Type	Mixture
Styrene-acrylic Copolymer	45.0–47.0%; CAS No. 25085-34-1
Water	52.0–54.5%; CAS No. 7732-18-5
Neutralizer (N,N-Dimethylethanolamine, DMEA)	<1.0% (approx. 0.5%); CAS No. 108-01-0. Used to adjust pH and below the threshold for classifying the mixture on the basis of this ingredient.
Isothiazolinone Preservatives	<0.1%; used for preservation of waterborne dispersions and may cause skin sensitization.

04 First-aid Measures

General Advice	Remove contaminated clothing. Seek medical attention if symptoms persist or if you feel unwell.
Skin Contact	Wash with soap and plenty of water. Seek medical attention if rash or irritation occurs.
Eye Contact	Rinse cautiously with plenty of water for at least 15 minutes. Seek medical attention if irritation persists.
Inhalation	Move the person to fresh air and keep breathing comfortable.
Ingestion	Rinse mouth. Do not induce vomiting. Seek medical attention if discomfort occurs.

05 Fire-fighting Measures

Specific Hazards	The product is water-based and not readily flammable. Dried residues may burn if exposed to fire.
Hazardous Combustion Products	Carbon monoxide, carbon dioxide and organic decomposition products may be generated.
Suitable Extinguishing Media	Use water spray, foam, dry powder or carbon dioxide according to the surrounding fire.
Protective Equipment	Firefighters should wear self-contained breathing apparatus and protective clothing. Prevent fire-fighting water from entering the environment.

06 Accidental Release Measures

Personal Precautions	Avoid contact with skin and eyes. Provide ventilation and wear suitable protective equipment for large spills.
Environmental Precautions	Prevent entry into drains, surface water and soil; avoid polymer deposits that may block drainage systems.
Clean-up Methods	Collect with sand, diatomaceous earth or other inert absorbent material and place in suitable containers for disposal.

07 Handling and Storage

Handling Precautions	Use in a well-ventilated area. Avoid mist formation and prolonged or repeated skin contact.
Hygiene Measures	Wash hands after handling. Do not eat or drink in work areas. Wash contaminated clothing before reuse.
Storage Conditions	Store and transport at 5-30°C. Keep the container tightly closed and protect from freezing, direct sunlight, heat and strong oxidizers.

08 Exposure Controls / Personal Protection

Occupational Exposure Limit	No exposure limit has been established for the product as a whole; control exposure according to general chemical handling practices.
Engineering Controls	Maintain good ventilation. Provide local exhaust when spraying or when mist may be generated.
Respiratory Protection	Normally not required. Wear suitable respiratory protection if mist is generated or ventilation is inadequate.
Eye Protection	Wear chemical safety glasses or goggles.
Skin and Body Protection	Wear general industrial protective clothing.
Hand Protection	Wear nitrile rubber, neoprene or other chemical-resistant gloves.
Other Protection	Follow general industrial hygiene practices. Change contaminated clothing and wash hands after work.

09 Physical and Chemical Properties

Appearance	Slightly blue translucent dispersion
Odor	Slight characteristic odor (faint amine odor)
pH	6.0-8.0
Solid Content	46.0 +/- 1.0%
Relative Density (water=1)	Approx. 1.04–1.06
Boiling Point	Approx. 100°C
Flash Point / Explosive Limits	Not applicable. This waterborne system is not readily flammable under normal conditions.
Solubility	Dispersible in water
Main Use	Two-component waterborne industrial baking coatings, metal baking coatings and thick-film protective coatings

10 Stability and Reactivity

Reactivity	No known hazardous reactions under normal storage and handling conditions.
Chemical Stability	Stable under normal conditions.
Conditions to Avoid	Avoid freezing, heat, direct sunlight and prolonged open storage.
Incompatible Materials	Strong oxidizers, strong acids and strong bases.
Hazardous Decomposition Products	Thermal decomposition or combustion may produce carbon monoxide, carbon dioxide and organic decomposition products.

11 Toxicological Information

Acute Toxicity	No acute toxicity test data are available for the mixture.
Skin Corrosion / Irritation	Not expected to be corrosive. Prolonged or repeated contact may cause mild irritation or dermatitis.
Serious Eye Damage / Irritation	Eye contact may cause irritation. Rinse immediately with plenty of water.
Skin Sensitization	The isothiazolinone preservatives in this product may cause an allergic skin reaction.
Carcinogenicity / Reproductive Toxicity	No relevant classification data available based on current information.
Specific Target Organ Toxicity	No relevant classification data available based on current information.

12 Ecological Information

Ecotoxicity	Harmful to aquatic life with long lasting effects.
Persistence and Degradability	Polymer components are not expected to be readily biodegradable; aqueous components may be handled as a typical water-borne system.
Bioaccumulative Potential	Based on information for similar polymer dispersions, bioaccumulation potential is expected to be low.
Mobility	May migrate with the water phase. Avoid direct release to the environment.

13 Disposal Considerations

Waste Classification	Determine according to actual contamination, residue quantity and local regulations.
Disposal Methods	Do not discharge directly into drains or the environment. Collect and dispose through qualified contractors or in accordance with regulations.
Container Disposal	Empty containers may contain chemical residues and should be handled according to this SDS and product labels.

14 Transport Information

UN Number	Not applicable.
Transport Hazard Class	Usually not regulated as dangerous goods under normal transport conditions.
Packing Group	Not applicable.
Environmental Hazards	Avoid release into water bodies or soil.
Transport Precautions	Transport tightly sealed at 5-30°C. Protect from freezing and direct sunlight. Keep away from food, acids and alkalis.

15 Regulatory Information

Regulatory Requirements	Handle in accordance with applicable chemical safety, environmental, occupational health and transport regulations.
Label and SDS Management	Refer to the product label and this Safety Data Sheet during storage, handling and transportation.
User Responsibility	Users should assess compliance according to the actual application, process conditions and local regulatory requirements.

16 Other Information

Disclaimer	This information is based on current product information and is provided for safety management reference.
Revision Note	Prepared in a 16-section SDS structure. Update when new test data or regulatory changes become available.
Revision Date	2026-11-28
Website	www.hhonour.com