N-2099H

Material Safety Data Sheet

Water-based polymer emulsion / N-2099H / MSDS

01 Product and Company Identification

Product Name	Water-dispersible polyisocyanate hardener
Trade Name	N-2099H
Company	Qingdao Highonour Chemical Tech Co., Ltd.
Website	www.hhonour.com

02 Composition / Information on Ingredients

Substance Type	Mixture
Modified aliphatic polyisocyanate	Main component
Reactive NCO content	20.0%

03 Hazards Identification

GHS Information	May cause skin and eye irritation. May cause allergic skin reaction or respiratory sensitization. Avoid inhalation of vapor, aerosol or mist.
Main Hazards	Reactive isocyanate groups react with water, alcohols and amines.

04 First-aid Measures

Skin Contact	Remove contaminated clothing and wash with soap and water.
Eye Contact	Rinse cautiously with water for at least 15 minutes and seek medical advice.
Inhalation	Move to fresh air. Seek medical attention if respiratory symptoms occur.
Ingestion	Do not induce vomiting. Rinse mouth and seek medical advice.

05 Fire-fighting Measures

Suitable Media	Dry powder, carbon dioxide, foam or water spray.
Specific Hazards	Thermal decomposition may release nitrogen oxides, carbon monoxide, carbon dioxide and isocyanate vapors.

06 Accidental Release Measures

Personal Precautions	Wear gloves, goggles and respiratory protection if mist is generated.
Clean-up	Absorb with inert material. Keep collected waste in vented containers until reaction ceases.
Environmental Precautions	Prevent entry into drains and waterways.

07 Handling and Storage

Handling	Avoid moisture contamination. Use under good ventilation.
Storage	Store tightly closed in a dry, cool and ventilated area away from water, alcohols, amines and strong bases.

08 Exposure Controls / Personal Protection

Engineering Controls	Local exhaust ventilation is recommended.
Eye Protection	Chemical safety goggles.
Hand Protection	Chemical-resistant gloves.
Respiratory Protection	Use appropriate respirator if aerosol or mist may be generated.

09 Physical and Chemical Properties

Appearance	Clear to slightly hazy liquid.
NCO Content	20.0%
Solid Content	99%
Viscosity	约5500 mPa.s

10 Stability and Reactivity

Stability	Stable if kept dry and tightly closed.
Conditions to Avoid	Moisture, high temperature and incompatible materials.
Incompatible Materials	Water, alcohols, amines, strong acids, strong bases and strong oxidizers.

11 Toxicological Information

Irritation	May irritate eyes, skin and respiratory tract.
Sensitization	Isocyanates may cause skin or respiratory sensitization.

12 Ecological Information

Ecotoxicity	Avoid uncontrolled release to the environment.
Mobility	Reacts with water and forms higher molecular weight urea products.

13 Disposal Considerations

Disposal	Dispose according to local regulations. React residues under controlled conditions before disposal.

14 Transport Information

Transport Classification	Transport classification depends on final formulation and package. Refer to official SDS and local regulations.
Precautions	Keep sealed and dry. Prevent leakage and moisture ingress.

15 Regulatory Information

Regulatory Information	Handle according to applicable chemical safety, occupational health and environmental regulations.

16 Other Information

Disclaimer	This document is a technical safety draft based on available product information and does not replace a legally reviewed SDS.
Website	www.hhonour.com