# N-2199M

Material Safety Data Sheet

**Water-based polymer emulsion** / N-2199M / MSDS

## 01 Product and Company Identification

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| **Product Name** | Water-dispersible polyisocyanate hardener |
| **Trade Name** | N-2199M |
| **Company** | Qingdao Highonour Chemical Tech Co., Ltd. |
| **Website** | www.hhonour.com |

## 02 Composition / Information on Ingredients

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| **Substance Type** | Mixture |
| **Modified aliphatic polyisocyanate** | Main component |
| **Reactive NCO content** | 21.0% |

## 03 Hazards Identification

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| **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

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| **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

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| **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

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| **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

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| **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

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| **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

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| **Appearance** | Clear to slightly hazy liquid. |
| **NCO Content** | 21.0% |
| **Solid Content** | 99% |
| **Viscosity** | 约1200 mPa.s |

## 10 Stability and Reactivity

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| **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

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

## 12 Ecological Information

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

## 13 Disposal Considerations

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

## 14 Transport Information

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| **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

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

## 16 Other Information

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| **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 |