


**Material Safety Data Sheet (MSDS)**

**YDN385 | Fully Waterborne High Imino Methyl Etherified Melamine Resin**

**Prepared by Ydnresin | A Division of YDN Group**

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**SECTION 1: Identification**

**Product Name:** YDN385

**Chemical Name:** Methyl Etherified Melamine Formaldehyde Resin


**Recommended Use:** Crosslinking agent for waterborne coatings and emulsions

**Manufacturer:**

Ydnresin | A Division of YDN Group

 No. 2088, Jiuliting Avenue, Caoqiao Street, Pinghu City, Zhejiang Province, China

 Email: sales@ydnresin.com

 Phone: +86-135-4070-2776

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**SECTION 2: Hazard Identification**

Classification (GHS)	Category
Eye Irritation	Category 2A
Skin Sensitization	Category 1
Specific Target Organ Toxicity – STOT (SE)	Category 3
Not classified as a flammable liquid	—

**Signal Word:** *Warning*

**Hazard Statements:**

- H319: Causes serious eye irritation
- H317: May cause allergic skin reaction

- H335: May cause respiratory irritation

**Precautionary Statements:**

- P261: Avoid breathing vapors or mist
- P280: Wear protective gloves and eye protection
- P305+P351+P338: IF IN EYES: Rinse cautiously with water
- P501: Dispose of contents/container in accordance with local regulations

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**SECTION 3: Composition / Information on Ingredients**

Component	CAS Number	Concentration (%)
Methyl Etherified Melamine Resin	Proprietary	78–82%
Water	7732-18-5	18–22%
Free Formaldehyde	50-00-0	≤0.5%

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**SECTION 4: First Aid Measures**

**Eye Contact:** Rinse immediately with water for 15 minutes. Seek medical advice.

**Skin Contact:** Wash with soap and water. Remove contaminated clothing.

**Inhalation:** Move to fresh air. Seek medical attention if symptoms persist.

**Ingestion:** Rinse mouth. Do not induce vomiting. Consult a physician.

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**SECTION 5: Fire-Fighting Measures**

- **Flash Point:** >100°C (non-flammable)
- **Extinguishing Media:** Water spray, CO<sub>2</sub>, dry chemical, foam
- **Hazards:** May emit carbon monoxide, CO<sub>2</sub>, formaldehyde under thermal decomposition
- **Protection:** Self-contained breathing apparatus (SCBA) and full protective clothing recommended

## SECTION 6: Accidental Release Measures

- Use personal protective equipment (gloves, goggles)
  - Prevent product from entering drains or waterways
  - Absorb with inert material (sand, earth) and place in chemical waste container
  - Ventilate the spill area and wash with water
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## SECTION 7: Handling and Storage

### Handling:

- Avoid contact with eyes, skin, and clothing
- Avoid inhalation of mist or vapors
- Ensure adequate ventilation in work areas

### Storage:

- Store in **cool, dry, well-ventilated** areas
  - Keep containers tightly sealed and protected from sunlight
  - Recommended temperature:  $\leq 25^{\circ}\text{C}$
  - Shelf life: **6 months**
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## SECTION 8: Exposure Controls / Personal Protection

### Occupational Exposure Limits:

Substance	OSHA PEL (TWA)	ACGIH TLV
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Formaldehyde	0.75 ppm	0.3 ppm (Ceiling)
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**Engineering Controls:** Use local exhaust or general ventilation.

### Personal Protective Equipment (PPE):

- **Eye/Face:** Safety goggles or face shield
- **Skin:** Chemical-resistant gloves (e.g., nitrile)
- **Respiratory:** Use a NIOSH-approved respirator when vapor is present

- **Other:** Protective apron or lab coat
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## SECTION 9: Physical and Chemical Properties

Property	Value
Appearance	Transparent viscous liquid
Odor	Mild characteristic odor
pH (1:1 solution)	8.5–9.5
Boiling Point	>100°C
Flash Point	>100°C (non-flammable)
Viscosity (30°C)	800–1500 mPa·s
Density (23°C)	~1250 kg/m <sup>3</sup>
Solubility in Water	Fully soluble
Solubility in Solvents	Partially soluble in alcohols; insoluble in esters and aromatics
Free Formaldehyde	≤0.5%

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## SECTION 10: Stability and Reactivity

- **Stability:** Stable under normal conditions
  - **Conditions to Avoid:** Excessive heat, freezing temperatures
  - **Incompatible Materials:** Strong acids, oxidizing agents
  - **Decomposition Products:** Carbon monoxide, carbon dioxide, formaldehyde
  - **Polymerization:** Will not occur under normal handling
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## SECTION 11: Toxicological Information

### Acute Toxicity:

- No acute oral toxicity expected at recommended use levels

- Mild to moderate irritant to eyes and skin
- May cause skin sensitization with prolonged exposure
- Contains low levels of formaldehyde, a known sensitizer and carcinogen (IARC Group 1)

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## SECTION 12: Ecological Information

- **Biodegradability:** Partially biodegradable
- **Aquatic Toxicity:** Not expected to be acutely toxic in small quantities
- **Mobility:** Soluble in water — may leach in soil
- **Persistence:** Resin matrix may remain under some environmental conditions

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## SECTION 13: Disposal Considerations

- Dispose of product and packaging in accordance with local, national, and international regulations
- Do not discharge into drains, surface water, or soil

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## SECTION 14: Transport Information


Regulatory Body	Classification
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UN Number	Not classified
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Transport Hazard Class	Not applicable
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Packing Group	Not applicable
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Proper Shipping Name	Non-Hazardous Liquid Resin (Waterborne)
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 *Not classified as dangerous goods under UN, IMDG, IATA, DOT, or ADR transport regulations.*


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## SECTION 15: Regulatory Information

-  TSCA: All components listed
  -  REACH: Compliant
  -  RoHS: Compliant
  -  SARA Title III: Contains formaldehyde (reportable component)
  -  California Prop 65: Contains formaldehyde (listed carcinogen)
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## **SECTION 16: Other Information**

**Prepared by:** Ydnresin Technical & Regulatory Department

 This MSDS is based on current knowledge and intended to describe the product in terms of safety requirements only. It does not guarantee product-specific properties or legal warranty.