

Material Safety Data Sheet (MSDS)

Product Name: YDN5130 | Highly Alkyl Etherified Melamine-Formaldehyde Resin

Ydnresin | A Division of YDN Group

 Last Updated: May 2025

SECTION 1: Product and Company Identification

Product Name   YDN5130


Recommended Use   Crosslinking resin for coatings, metal finishes, and e-coatings

Manufacturer:

Ydnresin | A Division of YDN Group

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

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 Phone: +86-135-4070-2776

SECTION 2: Hazards Identification

GHS Classification	Not classified as hazardous under GHS
Label Elements	No pictogram required
Signal Word	None
Hazard Statements	May cause mild skin or eye irritation
Precautionary Statements	Avoid contact with eyes and skin. Ensure good ventilation during use.

SECTION 3: Composition / Information on Ingredients

Chemical Name	CAS Number	Concentration (%)
Alkyl Etherified Melamine-Formaldehyde Resin	Proprietary	98–100

**Chemical Name****CAS Number Concentration (%)**

Residual Formaldehyde

50-00-0      ≤ 0.3

**Note:** Product meets low-formaldehyde (<0.3%) global standards including REACH and RoHS.

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**SECTION 4: First Aid Measures**

- **Inhalation:** Move to fresh air. Seek medical attention if irritation develops.
  - **Skin Contact:** Wash thoroughly with soap and water. Remove contaminated clothing.
  - **Eye Contact:** Rinse immediately with clean water for at least 15 minutes. Seek medical attention if irritation persists.
  - **Ingestion:** Rinse mouth. Do not induce vomiting. Seek medical assistance.
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**SECTION 5: Firefighting Measures**

**Flash Point**                      > 100°C (Non-flammable in normal conditions)

**Extinguishing Media**                      Water spray, foam, dry chemical, CO<sub>2</sub>

**Specific Hazards**                      May release CO, CO<sub>2</sub>, and trace formaldehyde vapors under fire

**Protective Equipment**                      Self-contained breathing apparatus (SCBA) and protective clothing recommended

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**SECTION 6: Accidental Release Measures**

- Isolate spill area. Wear appropriate PPE.
  - Absorb with inert material (e.g., sand or earth).
  - Avoid discharge into drains, soil, or waterways.
  - Collect and dispose in accordance with local regulations.
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**SECTION 7: Handling and Storage**

- Handle in well-ventilated areas.
  - Avoid prolonged skin or eye contact.
  - Store in original sealed containers at 5–30°C.
  - Protect from moisture, freezing, and direct sunlight.
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**SECTION 8: Exposure Controls / Personal Protection**

Component	Exposure Limit (OSHA / ACGIH)
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Formaldehyde (CAS 50-00-0)	0.75 ppm TWA / 0.3 ppm STEL
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**Personal Protective Equipment (PPE):**

- **Respiratory:** Not required under typical use. Use mask if vapor concentration is high.
  - **Eye Protection:** Safety goggles or face shield
  - **Skin Protection:** Gloves (nitrile, neoprene) and protective clothing
  - **Ventilation:** Use local exhaust ventilation for large-scale use
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**SECTION 9: Physical and Chemical Properties**

Property	Typical Value
Appearance	Clear to slightly yellow liquid
Odor	Mild, slightly formaldehyde
pH (20% solution)	7.5–8.5
Boiling Point	> 100°C
Flash Point	> 100°C
Density (25°C)	~1.20 g/cm <sup>3</sup>
Viscosity (25°C)	80–200 mPa·s

Property	Typical Value
Solubility in Water	Slightly soluble / dispersible

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#### SECTION 10: Stability and Reactivity

- **Stability:** Stable under normal conditions
  - **Conditions to Avoid:** Freezing, high heat, and air exposure
  - **Incompatible Materials:** Strong acids, oxidizing agents
  - **Decomposition Products:** CO, CO<sub>2</sub>, trace formaldehyde
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#### SECTION 11: Toxicological Information

- **Acute Toxicity:** Not expected to be toxic under normal use
  - **Skin Irritation:** Mild irritation possible with prolonged contact
  - **Eye Irritation:** May cause minor irritation
  - **Inhalation:** Minimal risk under standard ventilation
  - **Carcinogenicity:** Contains  $\leq$  0.3% formaldehyde (IARC Group 1); product as formulated is not classified as carcinogenic
  - **Chronic Effects:** Repeated exposure to vapors may cause respiratory irritation
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#### SECTION 12: Ecological Information

- **Biodegradability:** Partially biodegradable
  - **Ecotoxicity:** Avoid uncontrolled release into aquatic environments
  - **Mobility in Soil:** Moderate
  - **Persistence:** Medium-term environmental persistence possible
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#### SECTION 13: Disposal Considerations

- Dispose of in accordance with local and national regulations

- Avoid uncontrolled release to soil or water
  - Empty containers should be triple-rinsed and recycled or incinerated
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**SECTION 14: Transport Information**

**UN Number**                      **Not applicable**

**Transport Hazard Class** Not classified as dangerous goods

**Proper Shipping Name** Not regulated

**Packing Group**                      Not applicable

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**SECTION 15: Regulatory Information**

- **REACH (EU):** Compliant
  - **RoHS (EU):** Compliant
  - **TSCA (USA):** All ingredients listed or exempt
  - **ISO 9001 / ISO 14001:** Certified manufacturing facilities
  - **Formaldehyde Release:** ≤ 0.3% – meets EU E1 / US CARB standards
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**SECTION 16: Other Information**

- **Prepared By:** Ydnresin Technical Department
- **Revision Date:** [Insert Date]
- **Intended Use:** Industrial and professional use only
- **Disclaimer:** This MSDS provides safety-related information only. It does not constitute a product specification or guarantee of specific performance.