



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

📫 Email: sales@ydnresin.com

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 Avoid contact with eyes and skin. Ensure good ventilation

Statements during use.

SECTION 3: Composition / Information on Ingredients

Chemical Name CAS Number Concentration (%)

Alkyl Etherified Melamine-Formaldehyde Resin Proprietary 98–100



Pioneering Performance; Empowering Industry, Since 2002.

Chemical Name

CAS Number Concentration (%)

Residual Formaldehyde $50-00-0 \leq 0.3$

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

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.

SECTION 5: Firefighting Measures

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

Extinguishing

Media

Water spray, foam, dry chemical, CO₂

Specific Hazards May release CO, CO₂, and trace formaldehyde vapors under fire

Protective Self-contained breathing apparatus (SCBA) and protective

Equipment clothing recommended

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.



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.

SECTION 8: Exposure Controls / Personal Protection

Component Exposure Limit (OSHA / ACGIH)

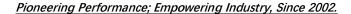
Formaldehyde (CAS 50-00-0) 0.75 ppm TWA / 0.3 ppm STEL

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

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/cm³
Viscosity (25°C)	80–200 mPa·s





Property Typical Value

Solubility in Water Slightly soluble / dispersible

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, CO₂, trace formaldehyde

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 ≤ 0.3% formaldehyde (IARC Group 1); product as formulated is not classified as carcinogenic
- Chronic Effects: Repeated exposure to vapors may cause respiratory irritation

SECTION 12: Ecological Information

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

SECTION 13: Disposal Considerations

Dispose of in accordance with local and national regulations



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- Avoid uncontrolled release to soil or water
- Empty containers should be triple-rinsed and recycled or incinerated

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

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

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.