

Material Safety Data Sheet (MSDS)

Product Name: YDN535 | High Imino Methyl Etherified Melamine-Formaldehyde Resin

Ydnresin | A Division of YDN Group

 Last Updated: May 2025

SECTION 1: Product and Company Identification

Product Name YDN535


Recommended Use Crosslinker for coatings, wood, furniture, industrial finishes

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 eye or skin irritation with prolonged exposure

Precautionary Statements Avoid contact with eyes, skin, and clothing. Use adequate ventilation.

SECTION 3: Composition / Information on Ingredients

Chemical Name	CAS Number	Weight %
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Methylated Melamine-Formaldehyde Polymer	Proprietary	98–100%
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Residual Formaldehyde	50-00-0	≤ 0.5%
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Note: Free formaldehyde content ≤ 0.5%. Compliant with REACH, RoHS, and ISO guidelines.

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 cautiously with water for at least 15 minutes. Seek medical attention if symptoms persist.
- **Ingestion:** Rinse mouth. Do not induce vomiting. Seek medical advice.

SECTION 5: Firefighting Measures

Flash Point	> 100°C (non-flammable under normal conditions)
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Extinguishing Media	Water spray, CO ₂ , dry chemical, foam
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Special Hazards	May emit CO, CO ₂ , and formaldehyde under fire
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Protective Equipment	Self-contained breathing apparatus and full gear recommended
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SECTION 6: Accidental Release Measures

- Use appropriate PPE
- Absorb spills with inert material (sand, earth)
- Avoid runoff into sewers or waterways
- Ventilate area and clean with water or approved solvents

SECTION 7: Handling and Storage

- Use in well-ventilated areas
 - Avoid contact with skin and eyes
 - Keep container tightly sealed
 - Store at 5–30°C in a cool, dry, and well-ventilated area
 - Avoid freezing and direct sunlight
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SECTION 8: Exposure Controls / Personal Protection

Component	Exposure Limits (ACGIH / OSHA)
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Formaldehyde (CAS 50-00-0)	0.75 ppm TWA / 0.3 ppm STEL
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PPE Recommendations:

- **Respiratory Protection:** Not required under normal use
 - **Eye Protection:** Chemical safety goggles
 - **Skin Protection:** Protective gloves and clothing
 - **Ventilation:** Local exhaust recommended 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 characteristic odor
pH (20% solution)	7.5–8.5
Boiling Point	> 100°C
Flash Point	> 100°C
Density (25°C)	~1.22 g/cm ³
Viscosity (25°C)	100–300 mPa·s

Property	Typical Value
Solubility in Water	Slightly soluble / dispersible

SECTION 10: Stability and Reactivity

- **Stability:** Stable under recommended conditions
 - **Conditions to Avoid:** Freezing, excessive heat
 - **Incompatible Materials:** Strong acids, oxidizers
 - **Hazardous Decomposition:** May emit formaldehyde, CO, CO₂
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SECTION 11: Toxicological Information

- **Acute Toxicity:** Low expected based on data
 - **Skin Contact:** May cause irritation upon prolonged exposure
 - **Eye Contact:** Mild irritant
 - **Inhalation:** Not hazardous under normal conditions
 - **Carcinogenicity:** Contains trace formaldehyde (IARC Group 1); resin formulation is not classified as carcinogenic under GHS
 - **Chronic Effects:** Prolonged exposure to vapor (from curing) may cause irritation
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SECTION 12: Ecological Information

- **Biodegradability:** Partially biodegradable
 - **Ecotoxicity:** No data for final product; use with care near water bodies
 - **Mobility:** Low in soil
 - **Bioaccumulation:** Not expected
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SECTION 13: Disposal Considerations

- Dispose of in accordance with local regulations

- Avoid release to the environment
 - Triple rinse and recycle or dispose of containers appropriately
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SECTION 14: Transport Information

UN Number Not classified as hazardous

Transport Hazard Class Non-hazardous

Packing Group Not applicable

Proper Shipping Name Not regulated

SECTION 15: Regulatory Information

- **REACH (EU):** Compliant
 - **RoHS:** Compliant
 - **TSCA:** All components listed or exempt
 - **ISO 9001 / 14001:** Manufactured under certified systems
 - **Formaldehyde Release:** Compliant with international emission standards
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SECTION 16: Other Information

- **Prepared By:** Ydnresin Technical Department
- **Intended Use:** Industrial use only
- **Disclaimer:** This MSDS is intended to describe the product for safety, health, and environmental requirements. It should not be construed as a guarantee of specific properties.