

Material Safety Data Sheet (MSDS)

Product Name: YDN5158 | High Imino n-Butyl Etherified Melamine-Formaldehyde Resin

Ydnresin | A Division of YDN Group

 *Last Updated: May 2025*

SECTION 1: Product and Company Identification

Product Name YDN5158


Recommended Use Crosslinker for coatings, automotive finishes, appliance enamels

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 eye or skin irritation

Precautionary Statements Avoid contact with eyes and prolonged skin exposure. Ensure adequate ventilation.

SECTION 3: Composition / Information on Ingredients

Chemical Name	CAS Number	Concentration (%)
n-Butyl Etherified Melamine-Formaldehyde Resin	Proprietary	98–100
Residual Formaldehyde	50-00-0	≤ 0.3

Note: Compliant with REACH and RoHS. Free formaldehyde content ≤ 0.3%.

SECTION 4: First Aid Measures

- **Inhalation:** Move to fresh air. If symptoms develop, seek medical attention.
 - **Skin Contact:** Wash with soap and water. Remove contaminated clothing.
 - **Eye Contact:** Rinse immediately with plenty of water for at least 15 minutes. Seek medical attention if irritation persists.
 - **Ingestion:** Rinse mouth. Do not induce vomiting. Get medical attention if symptoms occur.
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SECTION 5: Firefighting Measures

Flash Point	> 100°C (non-flammable in normal conditions)
Extinguishing Media	Water mist, foam, dry chemical, or CO ₂
Special Hazards	May release CO, CO ₂ , and trace formaldehyde fumes when burning
Protective Equipment	Firefighters should wear SCBA and protective gear

SECTION 6: Accidental Release Measures

- Isolate spill area and ensure proper ventilation.
 - Wear suitable PPE during cleanup.
 - Absorb with inert material (sand, earth) and collect for disposal.
 - Avoid entry into drains or waterways.
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SECTION 7: Handling and Storage

- Use in well-ventilated areas.
 - Avoid contact with skin and eyes.
 - Store in tightly sealed containers between 5–30°C.
 - Do not freeze. Protect from sunlight and moisture.
 - Keep away from strong oxidizing agents and acids.
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SECTION 8: Exposure Controls / Personal Protection

Substance	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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Personal Protective Equipment (PPE):

- **Respiratory Protection:** Not normally required. Use respirator if vapor is generated.
 - **Eye Protection:** Safety goggles or face shield
 - **Skin Protection:** Protective gloves (nitrile or neoprene)
 - **Ventilation:** Local exhaust recommended for large-scale operations
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SECTION 9: Physical and Chemical Properties

Property	Typical Value
Appearance	Clear to slightly yellow liquid
Odor	Slight characteristic odor
pH (20% solution)	7.5–8.5
Boiling Point	> 100°C
Flash Point	> 100°C
Solubility in Water	Slightly soluble

Property	Typical Value
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Viscosity (25°C)	80–200 mPa·s
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Specific Gravity (25°C)	~1.21 g/cm ³
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SECTION 10: Stability and Reactivity

- **Chemical Stability:** Stable under normal conditions
 - **Conditions to Avoid:** Freezing, high heat, strong oxidizers
 - **Incompatible Materials:** Acids, strong oxidizers
 - **Hazardous Decomposition:** CO, CO₂, trace formaldehyde vapors
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SECTION 11: Toxicological Information

- **Acute Toxicity:** Low expected risk from normal use
 - **Skin Irritation:** May cause mild irritation
 - **Eye Irritation:** May cause slight irritation
 - **Inhalation:** Vapors may cause mild respiratory discomfort
 - **Carcinogenicity:** Contains trace formaldehyde (IARC Group 1); final product not classified as carcinogenic under GHS
 - **Chronic Effects:** None known under normal exposure conditions
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SECTION 12: Ecological Information

- **Biodegradability:** Partial
 - **Aquatic Toxicity:** Not expected to be acutely toxic
 - **Mobility in Soil:** Low to moderate
 - **Environmental Effects:** Avoid uncontrolled release into the environment
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SECTION 13: Disposal Considerations

- Dispose of in accordance with local/regional/national regulations
 - Do not release into drains or water bodies
 - Empty containers should be properly cleaned and reused or disposed of per local policy
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SECTION 14: Transport Information

UN Number **Not applicable**

Transport Hazard Class Non-hazardous

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 / 14001:** Certified manufacturing
 - **Formaldehyde Release:** ≤ 0.3% — compliant with E1 and other global limits
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SECTION 16: Other Information

- **Prepared By:** Ydnresin Technical Department
 - **Revision Date:** [Insert Date]
 - **Intended Use:** For industrial use only
 - **Disclaimer:** This MSDS is based on current knowledge and is provided for health, safety, and environmental protection purposes. It does not constitute a warranty of product specifications or performance.
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