

Material Safety Data Sheet (MSDS)

Product Name: YDNU-65 | Methylated Urea Formaldehyde Resin

Manufacturer: Ydnresin | A Division of YDN Group

Ydnresin | A Division of YDN Group

 Last Updated: May 2025

SECTION 1: Identification

Product Name: YDNU-65

Chemical Name: Methylated Urea Formaldehyde Resin


Recommended Use: Crosslinking agent for industrial coatings, paper finishes, and water-based formulations

Manufacturer:

Ydnresin | A Division of YDN Group

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SECTION 2: Hazard Identification

Classification (GHS)

Category

Skin Sensitization

Category 1

Eye Irritation

Category 2A

Carcinogenicity (formaldehyde content)

Category 2

Specific Target Organ Toxicity – Single Exp. Category 3

Signal Word: *Warning*

Hazard Statements:

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

- H351: Suspected of causing cancer (due to trace formaldehyde)
- H335: May cause respiratory irritation

Precautionary Statements:

- P261: Avoid breathing vapor/mist
- P280: Wear protective gloves/eye protection
- P302+P352: IF ON SKIN: Wash with plenty of soap and water
- P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes

SECTION 3: Composition / Information on Ingredients

Component	CAS Number	Concentration (%)
Methylated Urea Formaldehyde Resin Proprietary		85–95%
Water	7732-18-5	0–10%
Free Formaldehyde	50-00-0	≤0.5%

SECTION 4: First Aid Measures

Eye Contact: Rinse immediately with water for 15 minutes. Seek medical advice if irritation persists.

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

Inhalation: Move to fresh air. Get medical attention if symptoms occur.

Ingestion: Do not induce vomiting. Rinse mouth. Seek medical help.

SECTION 5: Fire-Fighting Measures

- **Flash Point:** 76°C (Closed cup)
- **Suitable Extinguishing Media:** Foam, CO₂, dry chemical, water spray
- **Hazards:** Thermal decomposition may release formaldehyde, CO, CO₂
- **Protective Equipment:** Self-contained breathing apparatus and full protective gear

SECTION 6: Accidental Release Measures

- Use personal protective equipment
 - Contain and absorb with inert material (sand, diatomaceous earth)
 - Dispose in accordance with local regulations
 - Avoid release into sewers/waterways
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SECTION 7: Handling and Storage**Handling:**

- Ensure adequate ventilation
- Avoid contact with skin and eyes
- Do not inhale vapor or mist

Storage:

- Store in tightly closed containers
 - Keep in cool, dry, well-ventilated areas
 - Shelf life: 6 months at ambient temperature
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SECTION 8: Exposure Controls / Personal Protection**Occupational Exposure Limits (Formaldehyde):**

- OSHA PEL: 0.75 ppm TWA
- ACGIH TLV: 0.3 ppm Ceiling

Engineering Controls:

- Use local exhaust ventilation
- Emergency showers and eyewash stations recommended

Personal Protective Equipment (PPE):

- Eye Protection: Safety goggles

- Skin Protection: Nitrile gloves, chemical-resistant clothing
 - Respiratory: Use NIOSH-approved respirator if vapor is generated
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SECTION 9: Physical and Chemical Properties

Property	Value
Appearance	Transparent viscous liquid
Odor	Mild chemical
pH (10% solution)	7–8
Boiling Point	>100°C
Flash Point	76°C (Closed Cup)
Density (23°C)	~1200 kg/m ³
Solubility in Water	Fully soluble
Viscosity (30°C)	3000–10000 mPa·s
Free Formaldehyde	≤0.5%

SECTION 10: Stability and Reactivity

Stability: Stable under normal storage conditions

Incompatible Materials: Strong acids, oxidizing agents

Hazardous Decomposition: Formaldehyde, carbon monoxide, carbon dioxide

Polymerization: Will not occur under normal conditions

SECTION 11: Toxicological Information

Acute Toxicity: Low toxicity under normal handling

Skin & Eye Contact: May cause irritation

Sensitization: Potential skin sensitizer

Carcinogenicity: Contains ≤0.5% formaldehyde (IARC Group 2A – possible carcinogen)

SECTION 12: Ecological Information

- **Biodegradability:** Expected to be biodegradable
 - **Aquatic Toxicity:** Low at recommended use levels
 - **Mobility:** Soluble in water; may migrate in soil
 - **Persistence:** Resin component may remain stable under environmental exposure
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SECTION 13: Disposal Considerations

- Dispose of contents/container in accordance with local, regional, national, and international regulations
 - Do not release into the environment
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SECTION 14: Transport Information

UN Number **Not regulated**

DOT / IMDG / IATA Not classified as hazardous

Proper Shipping Name Non-Hazardous Resin Compound

Packing Group None

SECTION 15: Regulatory Information

- TSCA (USA): All ingredients listed
 - REACH (EU): Compliant
 - RoHS: Compliant
 - SARA Title III: Not subject to Section 313 reporting
 - California Prop 65: Contains trace formaldehyde
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SECTION 16: Other Information

Prepared by: Ydnresin Technical Team

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