

Material Safety Data Sheet (MSDS)

Product Name: YDN8080A | Water-Based Melamine-Formaldehyde Resin

Manufacturer: Ydnresin | A Division of YDN Group

Ydnresin | A Division of YDN Group

 Last Updated: May 2025

SECTION 1: Product and Company Identification

Product Name YDN8080A


Recommended Use Textile finishing, coatings, paper treat

mentManufacturer:

Ydnresin | A Division of YDN Group

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

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SECTION 2: Hazards Identification

GHS Classification Not classified as hazardous under GHS criteria

Label Elements No pictogram required

Signal Word None

Hazard Statements None identified

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

SECTION 3: Composition / Information on Ingredients

Chemical Name	CAS Number	% by Weight
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Melamine-Formaldehyde Polymer	Proprietary	40–50%
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Water	7732-18-5	Balance
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Residual Formaldehyde	50-00-0	<0.3%
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Note: Contains <0.3% free formaldehyde. Product is considered low-emission and compliant with global safety regulations.

SECTION 4: First Aid Measures

- **Inhalation:** Move to fresh air. Seek medical attention if symptoms persist.
- **Skin Contact:** Wash with soap and water. Remove contaminated clothing.
- **Eye Contact:** Rinse cautiously with water for several minutes. Seek medical advice if irritation persists.
- **Ingestion:** Rinse mouth. Do not induce vomiting. Seek medical attention.

SECTION 5: Firefighting Measures

Flash Point Not applicable (water-based)

Extinguishing Media Water spray, dry chemical, CO₂, foam

Special Hazards May release trace formaldehyde and CO under fire

Protective Equipment Use SCBA and full protective gear

SECTION 6: Accidental Release Measures

- Ventilate area.
- Contain spill and absorb with inert material (e.g., sand or earth).
- Collect for disposal per local regulations.
- Avoid discharge into drains or water bodies.

SECTION 7: Handling and Storage

- Use with adequate ventilation.
 - Avoid contact with eyes and prolonged skin exposure.
 - Store in tightly sealed containers between 5–30°C.
 - Protect from freezing and direct sunlight.
 - Keep container closed when not in use.
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SECTION 8: Exposure Controls / Personal Protection

Component	Exposure Limit (OSHA / ACGIH TLV)
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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 normal conditions
 - **Eye Protection:** Safety goggles
 - **Skin Protection:** Protective gloves
 - **Ventilation:** Use local exhaust ventilation if necessary
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SECTION 9: Physical and Chemical Properties

Appearance	Clear to slightly hazy liquid
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Odor	Slight formaldehyde odor
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pH	8.5–9.5
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Boiling Point	>100°C
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Solubility in Water	Completely soluble
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Viscosity	30–150 mPa·s (25°C)
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Density	~1.20 g/cm ³
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Flash Point	Not applicable
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SECTION 10: Stability and Reactivity

- **Stability:** Stable under recommended storage conditions
 - **Incompatible Materials:** Strong acids, strong oxidizing agents
 - **Hazardous Decomposition:** CO, CO₂, trace formaldehyde gas
 - **Conditions to Avoid:** Freezing, overheating, and contamination
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SECTION 11: Toxicological Information

- **Acute Toxicity:** Low oral and dermal toxicity expected
 - **Skin Irritation:** May cause mild irritation with prolonged contact
 - **Eye Irritation:** May cause slight transient irritation
 - **Carcinogenicity:** Contains <0.3% formaldehyde (IARC Group 1 carcinogen); product as formulated is not classified as carcinogenic
 - **Chronic Effects:** No known significant long-term hazards under normal use
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SECTION 12: Ecological Information

- **Biodegradability:** Partially biodegradable
 - **Aquatic Toxicity:** No acute hazard in diluted form
 - **Environmental Fate:** Do not allow to enter waterways untreated
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SECTION 13: Disposal Considerations

- Dispose of in accordance with local, regional, and national regulations
 - Do not discharge into sewers or waterways
 - Empty containers should be triple-rinsed and recycled or disposed of properly
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SECTION 14: Transport Information

UN Number **Not regulated**

Transport Hazard Class Non-hazardous

Packing Group Not applicable

Proper Shipping Name Not classified as dangerous goods

SECTION 15: Regulatory Information

- REACH: Compliant
 - RoHS: Compliant
 - TSCA: All components listed or exempt
 - Formaldehyde release complies with international safety limits (<0.3%)
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SECTION 16: Other Information

- **Prepared By:** Ydnresin Technical Department
- **Date of Preparation:** [Insert Date]
- This information is based on current knowledge and intended to describe the product in terms of health, safety, and environmental requirements only.