

Material Safety Data Sheet (MSDS)

YDN525 | High Imino Methyl Etherified Melamine Resin Prepared by Ydnresin | A Division of YDN Group

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SECTION 1: Identification

Product Name: YDN525

Chemical Name: Methyl Etherified Melamine Formaldehyde Resin

Recommended Use: Crosslinking agent for water-based and solvent-based baking

finishes

Manufacturer:

Ydnresin | A Division of YDN Group

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SECTION 2: Hazard Identification

Classification (GHS) Category

Eye Irritation Category 2A

Skin Sensitization Category 1

Specific Target Organ Toxicity (STOT-SE) Category 3

Flammable Liquid (due to solvent) Category 3

Signal Word: Warning

Hazard Statements:

• H226: Flammable liquid and vapor



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- H317: May cause allergic skin reaction
- H319: Causes serious eye irritation
- H335: May cause respiratory irritation

Precautionary Statements:

- P210: Keep away from heat/sparks/open flames
- P261: Avoid breathing vapor or spray
- P280: Wear gloves and eye protection
- P305+P351+P338: IF IN EYES: Rinse cautiously with water
- P501: Dispose of contents/container in accordance with regulations

SECTION 3: Composition / Information on Ingredients

Component CAS Number Concentration (%)

Melamine-Formaldehyde Resin Proprietary 75–80%

Isobutanol (solvent) 78-83-1 15–20%

Free Formaldehyde 50-00-0 ≤1.0%

SECTION 4: First Aid Measures

Eye Contact: Rinse cautiously with water for several minutes. Seek medical attention if irritation persists.

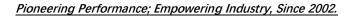
Skin Contact: Wash with soap and water. Remove contaminated clothing.

Inhalation: Move to fresh air. If breathing is difficult, seek medical attention.

Ingestion: Rinse mouth. Do not induce vomiting. Get medical help immediately.

SECTION 5: Fire-Fighting Measures

- Flash Point: ~32°C (due to isobutanol)
- Extinguishing Media: Foam, dry chemical, CO₂, water spray
- Hazardous Combustion Products: Carbon monoxide, carbon dioxide,





formaldehyde, nitrogen oxides

 Protective Equipment: Wear self-contained breathing apparatus (SCBA) and full protective gear

SECTION 6: Accidental Release Measures

- Evacuate area and ensure proper ventilation
- Wear PPE (gloves, goggles, mask)
- Contain spill and absorb with inert material (sand, vermiculite)
- Prevent entry into drains or waterways
- Dispose of waste in accordance with local regulations

SECTION 7: Handling and Storage

Handling:

- Avoid contact with skin and eyes
- Do not inhale vapors or mist
- Use with adequate ventilation
- Keep away from sources of ignition

Storage:

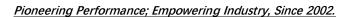
- Store in cool, dry, ventilated areas away from sunlight
- Keep container tightly sealed
- Shelf life: 6 months in original packaging

SECTION 8: Exposure Controls / Personal Protection

Exposure Limits (for Isobutanol & Formaldehyde):

Substance OSHA PEL (TWA) ACGIH TLV

Isobutanol 100 ppm 50 ppm





Substance OSHA PEL (TWA) ACGIH TLV

Formaldehyde 0.75 ppm 0.3 ppm (Ceiling)

Engineering Controls: Local exhaust ventilation recommended.

Personal Protective Equipment (PPE):

• **Eye/Face**: Safety goggles or face shield

• **Skin**: Chemical-resistant gloves (nitrile, neoprene)

Respiratory: Use NIOSH-approved respirator in poorly ventilated areas

• Other: Protective clothing, eyewash station access

SECTION 9: Physical and Chemical Properties

Property	Value
Appearance	Transparent to light-yellow viscous liquid
Odor	Mild chemical (alcoholic)
pH (1:1 solution)	8.0–9.5
Boiling Point	>100°C
Flash Point	~32°C (closed cup)
Viscosity (30°C)	1000-3000 mPa·s
Density	~1.12 g/cm³
Solubility in Water	Partial
Solubility in Xylene	Partial
Free Formaldehyde	≤1.0%

SECTION 10: Stability and Reactivity

Stability: Stable under normal conditions

Incompatible Materials: Strong acids, oxidizing agents





Hazardous Decomposition: CO, CO_2 , NO_x , formaldehyde

Hazardous Polymerization: Will not occur under standard use

SECTION 11: Toxicological Information

Acute Toxicity:

- Isobutanol may cause skin and eye irritation
- Formaldehyde is a known sensitizer and potential carcinogen (IARC Group 1)
- Product may cause allergic skin reaction with prolonged exposure

SECTION 12: Ecological Information

- **Biodegradability**: Partially biodegradable
- Aquatic Toxicity: May be harmful in high concentrations
- Mobility in Soil: Medium (due to partial solubility)
- **Persistence**: Resin may persist under environmental conditions

SECTION 13: Disposal Considerations

- Dispose of product and container according to local, regional, and national regulations
- Avoid release to the environment
- Do not pour into drains or surface water

SECTION 14: Transport Information

Regulatory Body Classification

UN Number UN1993 (Isobutanol blend)

Proper Shipping Name Flammable Liquid, N.O.S.

Hazard Class 3 (Flammable Liquid)



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Regulatory Body Classification

Packing Group III

Labels Flammable

SECTION 15: Regulatory Information

TSCA: All ingredients listed

REACH: Compliant

• RoHS: Compliant

• SARA Title III: Formaldehyde listed (reportable)

• California Prop 65: Contains formaldehyde (listed carcinogen)

SECTION 16: Other Information

Prepared by: Ydnresin Technical Department

Disclaimer: This information is provided in good faith and is based on current knowledge. No warranty is implied. Users must ensure suitability and safety in their own processes and compliance with applicable laws and regulations.