

NATIONAL CASEIN® COMPANY
MATERIAL SAFETY DATA SHEET

No. U-10

SECTION I General Information	Emergency Telephone Number
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Company Name and Address:
National Casein® Company
601 West 80th Street
Chicago, Illinois 60620

Business Hours:
773-846-7300
24 Hour Emergency:
Chemtrec 1-800-424-9300

Latest Revisions: **2/00**
Supersedes: 5/99

Trade Name(s) and Synonyms:
46-80, MB-4650

Product CAS # 68002-20-0

Liquid Melamine Formaldehyde Resin Adhesive

SECTION II Hazardous Ingredients	Approx %	Exposure Limits
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Formaldehyde (50-00-0)*

0.2-0.5

PEL 0.75ppm TWA (OSHA)
STEL 2ppm/15 Min. (OSHA)
Ceiling 0.3ppm/0.37 mg/m³ (ACGIH)

SECTION III Physical and Chemical	Characteristics
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Boiling Point (F): 212-220°

Specific Gravity: 1.25

% Volatile (Approx.): 20

Physical and Chemical Descriptions:

Clear to hazy solution of melamine
formaldehyde resin
Odor: formaldehyde

Formulated Product Mixture

SECTION IV Physical Hazards (Fire and Explosion)

Flash Point: >212° F. (Pensky-Martens closed cup)

Extinguishing Media: Water, CO₂, Foam, Dry Chemical

Hazardous Decomposition Products: Thermal decomposition may produce CO, CO₂, formaldehyde, and/or oxides of nitrogen.

Unusual Fire and Explosion Hazards/Procedures: In a fire situation, use water to cool containers. Wear self contained breathing apparatus and full fire-fighting protective equipment.

SECTION V Health Hazard Data**Exposure Limits:**

See Section II. Not applicable for mixture.

Primary Route of Entry (Target Organs):

Inhalation: Respiratory system

Contact: Eyes, skin

Ingestion: Digestive tract

Emergency and First Aid Procedures:

Inhalation: Remove to fresh air. Give artificial respiration if victim is not breathing. Administer oxygen if breathing is labored. Get medical attention.

Eyes: Flush eyes with water for 15 minutes. Get medical attention.

Skin: Remove contaminated clothing. Wash affected area thoroughly. Launder clothing before reuse. Seek medical attention if irritation persists.

Ingestion: Drink large quantity of water. Induce vomiting only if victim is conscious. Consult physician.

Chronic Health Hazards: Formaldehyde is an irritant and respiratory sensitizer. Formaldehyde may cause an allergic reaction in some workers. Employees who show extreme sensitivity to formaldehyde should not be exposed to it.

Effects of Overexposure: Direct contact with product may cause moderate skin and eye irritation. Irritation of the nose and throat has been observed in persons exposed to formaldehyde levels in excess of 1ppm. Breathing may be impaired if exposure levels exceed 10ppm. Serious lung damage can occur at levels exceeding 50ppm.

Carcinogenic Status: Formaldehyde is listed as reasonably anticipated to be carcinogenic to humans by NTP. IARC considers formaldehyde to be a probable carcinogen to humans (2A). OSHA lists formaldehyde as a potential carcinogen, and ACGIH maintains formaldehyde as a suspected carcinogen (A2).

Conditions Aggravated by Exposure: None known.

SECTION VI Chemical Hazard Data (Reactivity)

Stability (Conditions to Avoid): Stable (avoid contact with acidic materials, heat, and oxidizing agents).

Incompatibility (Materials to Avoid): Strong acids and strong oxidizing agents.

Hazardous Decomposition Products: Thermal decomposition or combustion may produce carbon monoxide, carbon dioxide, formaldehyde and/or oxides of nitrogen.

SECTION VII Spill or Leak Procedures

Steps to be taken if Released or Spilled: Dike with absorbent material to prevent release to sewer system, groundwater, surface water, or any other body of water. Use fans to blow away formaldehyde vapors. Cover spills with an inert absorbent material; sweep up and place in a waste disposal container. Flush area with water. If exposure levels are known, wear respiratory protective equipment appropriate for exposure levels.

Waste Disposal Method: Dispose according to federal, state and local Regulations.

SECTION VIII Special Protection Information

Ventilation: Local exhaust ventilation should be provided to control exposure.

Respiratory Protection: If exposure guidelines detailed in Section II are exceeded, appropriate NIOSH-approved respirators should be worn. See "Guide to Industrial Respiratory Protection (NIOSH)".

Eye Protection: Safety glasses/goggles or face shield should be worn.

Protective Gloves: Impervious chemical gloves should be worn.

Other Protective Equipment: Protective clothing such as impervious gloves, apron, work pants, long-sleeve shirts, or disposable coveralls are recommended to prevent skin contact. Eyewash and safety shower should be provided in areas of potential exposure.

SECTION IX Special Precautions/Procedures/Comments

Precautions in Handling and Storing: Avoid contamination and extreme temperatures. Keep container closed. Wear protective equipment to avoid splashes and vapors. It is recommended that a shower be taken after completion of a workshift if significant contact has occurred. Work clothing should be laundered prior to reuse. Work clothing and shoes should not be taken home.

Comments: Precautions should be taken when formaldehyde liquid or vapor is present.

SARA, TITLE III, SEC. 313 NOTIFICATION
See Section II - Chemicals marked with an asterisk (*) are subject to reporting requirements of Sec. 313.

NATIONAL CASEIN® PRODUCT HAZARD RATING
REALISTIC FOR USE:
(NONE-LOW-MEDIUM-HIGH)
HEALTH - Medium (2)
FIRE - Low (1)
REACTIVITY - Low (0)

While the information and recommendations set forth herein are believed to be accurate as of the date hereof, National Casein® Company makes no warranty with respect thereto and disclaims all liability from reliance thereon.