



MATERIAL SAFETY DATA SHEET

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prefere
by dynea

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PRODUCT IDENTIFICATION

Product Name: Prefere™ 5025A , Hardener Slurry for Melamine – Urea Formaldehyde Resin Solution

Chemical Name: Catalyst

CAS Number: Mixture

PIN: 3265

NFPA Classification: Health: 3; Flammability: 1; Instability: 0; Special: COR

HAZARDOUS COMPONENTS

Formic Acid, CAS No: 64-18-6; 23 – 30% by weight

Exposure Limits: OSHA 5 ppm TWA; ACGIH, 5 ppm TWA, 10 ppm STEL

Toxicity: Oral rat – LD₅₀ 1100 mg/kg, oral dog LD₅₀ 4000 mg/kg; oral woman LD_{LO} 2440 µg/kg

Poison by inhalation, intravenous, and intraperitoneal routes. Moderately toxic by ingestion. Mutation data reported. Corrosive. A skin and severe eye irritant. A substance migrating to food from packaging materials. Combustible liquid when exposed to heat or flame; can react vigorously with oxidizing materials. Explosive reaction with furfuryl alcohol, H₂O₂, Tl(NO₃)₃·3H₂O, nitromethane, P₂O₅. To fight fire, use CO₂, dry chemical, alcohol foam. When heated to decomposition it emits acrid smoke and irritating fumes.

Resorcinol, CAS No. 108-46-3, 15.0 - 20.0% by weight.

Exposure Limits: OSHA and ACGIH; 10 ppm 8 hour TWA, 20 ppm 15 minute STEL.

Toxicity: Oral rat LD₅₀ 301 mg/kg; Oral Human LD_{LO} 29 mg/kg

Resorcinol is a skin and eye irritant; it can cause systemic toxicity by acting on the blood and nervous system. When ingested, it can cause corrosion with enlargement of the lymph glands; restlessness, sweating enlargement of liver and spleen, methemoglobinemia, cyanosis, convulsions

EMERGENCY OVERVIEW

Tan slurry. CORROSIVE. May cause eye, skin, nasal or respiratory passage irritation. Avoid contact with strong oxidizers or bases.

HAZARDS IDENTIFICATION

Exposure Effects

Eyes: may cause severe irritation, reddening and or weeping.

Inhalation: may cause coughing and burning sensation, or bronchitis, laryngitis or pulmonary edema.

Ingestion: May be poisonous. May cause burning sensation to mucous membrane, nausea, dizziness and convulsions.

Skin: may cause severe redness, dryness, cracking and, in sensitive people, dermatitis.

FIRST AID

Treat as an emergency - never give anything to an unconscious person.

Eyes: irrigate with a gentle stream of water, for at least fifteen minutes. Secure medical attention.

Inhalation: remove patient to fresh air, keep warm and quiet. Secure medical attention if unconscious.

Ingestion: If conscious, administer large quantities of water, **DO NOT** induce vomiting. Secure medical attention immediately. If unconscious or in convulsions, secure transportation to a hospital immediately.

Skin: remove contaminated clothing, flush skin with water and wash with mild soap and warm water.

FIRE FIGHTING

Fire Fighting Procedure: use water spray, dry chemical, foam, or CO₂. Use water spray to cool containers. Keep product out of sewers and public waters.

Special equipment required: wear full protective clothing and NIOSH approved self-contained breathing apparatus.

Hazardous combustion products: may be carbon monoxide, carbon dioxide, formaldehyde. May emit acrid and irritating fumes

ACCIDENTAL RELEASE PROCEDURES

Large spills or leaks should be recovered taking precautions to avoid/minimize dust generation when dry. Place in an appropriate waste container. Dispose in compliance with all Federal, State and local regulations. This is a RCRA Hazardous Waste.

HANDLING AND STORAGE

Store in cool, dry well ventilated place at temperature less than 70°F. Rotate stock to use oldest first. Do not store near strong acids, alkalis, or oxidizers. Do not expose to sources of heat, ignition, or bases.

EXPOSURE CONTROLS AND PERSONAL PROTECTION

Respiratory protection: exposure should be minimized by engineering or administrative controls so as to prevent overexposure. In the absence of suitable controls and/or if overexposure may occur, wear a NIOSH/MSHA approved respirator suitable for acid vapors.

Eyes: chemical safety goggles are recommended.

Skin: avoid repeated or prolonged skin contact. Wash hands and face with soap and water prior to eating or drinking. Wear rubber gloves .

PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Tan	Odor: acrid	Physical State: Liquid slurry
pH: < 1.0 – 2.5	Vapor Pressure: Not available	Vapor Density: 0.62 (air = 1)
Boiling Point: > 95°C (200°F)	Freezing Point: 0°C (32°F)	Specific Gravity: 1.1 - 1.3
Evaporation Rate: of water	Coefficient. of oil/water distr.: Not applicable	Flash Point: >100°C (212°F)
Odor Threshold: Not available	Volatile Wt. %: 15 - 50%	

STABILITY AND REACTIVITY

Exposure to elevated temperatures or strong acids will cause rapid evolution of formaldehyde and water.

TRANSPORTATION INFORMATION

Canada	USA
<250 kg – Corrosive Liquid, Acidic, Organic, N.O.S.,(Formic Acid), Class 8, UN 3265, PG I	<16,666 lbs – Corrosive Liquid, Acidic, Organic, N. O. S., (Formic Acid), 8, UN 3265, PG I
> 250 - Corrosive Liquid, Acidic, Organic, N. O. S., (Formic Acid, Resorcinol), Class 8, UN 3265, PG I	>16,666 - 25,000 lbs. - RQ, Corrosive Liquid, Acidic, Organic, N. O. S., (Formic Acid) 8, UN 3265, PG I
	≥ 25,000 lbs. - RQ, Corrosive Liquid, Acidic, Organic, N. O. S., (Formic Acid, Resorcinol) 8, UN 3265, PG I

REGULATORY INFORMATION**SARA Title III**

Section 304 emergency notification substances contained: Formic Acid (RQ 5,000 pounds), Resorcinol (RQ 5,000 pounds).

Section 311/312 hazard categories: acute hazard, chronic hazard.

Section 313 emissions reporting: Formic Acid (see **HAZARDOUS COMPONENTS** section).

Canadian WHMIS Classification: D2A, D2B,E

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DISCLAIMER

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