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P10

PRODUCT IDENTIFICATION

Product Name: Prefere™ 4720, Methylated Melamine Formaldehyde Resin

Chemical Name: Methylated Melamine Formaldehyde Polymer

CAS Number: 68002-20-0

PIN: Not TDG Regulated

NFPA Classification: Health: 2; Flammability: 1; Instability: 0

HAZARDOUS COMPONENTS
Formaldehyde: CAS No. 50-00-0, 1.0 - 2.0 % by weight as free formaldehyde.

Exposure Limits: OSHA; 0.75 ppm 8 hour TWA, 2.0 ppm STEL. ACGIH: 0.3 ppm Ceiling.

 Toxicity: Skn-rbt LD₅₀ 270 mg/kg; oral-rat LD₅₀ 100 mg/kg; inh-rat LC₅₀ 200 mg/m³/4h

Warning: Formaldehyde is classified as an IARC Group I Human carcinogen (nose and pharynx) and a potential human carcinogen by NTP and OSHA. It is irritating and potentially harmful to the eyes, skin, and respiratory system and may cause skin allergies to sensitive individuals.

Methanol: CAS No. 67-56-1, 3.7 – 4.7 % free methanol by weight.

Exposure Limits: OSHA and ACGIH: 200 ppm TWA, 250 ppm STEL, skin.

 Toxicity: skn-rbt LD₅₀: 15,800 mg/kg; oral-rat LD₅₀: 5628 mg/kg; inh-rat LC₅₀: 64,000 ppm/4H

DANGER: Ingestion or inhalation may cause headache, fatigue, visual impairment, narcosis, and or respiratory failure. Severe intoxication may result in blindness or death.

1, 4-Butanediol: CAS No. 110-63-4, 2.6 % by weight

Exposure Limits: None established

 Toxicity: LD₅₀ oral rat: 1525 mg/kg. Material investigated as a tumorigen and mutagen.

NTP Carcinogen: None known or anticipated.

e-caprolactam: CAS No. 105-60-2, 1.3% by weight

 Exposure Limits: TWA: NIC-5^(V).

 Toxicity: Oral-Rat: 1,210 mg/kg (LD₅₀); Inhalation-Rat: 300 mg/m³ (LC₅₀); Skin-Rat: > 2,000 mg/kg (LD₅₀); Oral-Mouse: 930 mg/kg (LD₅₀); Inhalation-Mouse: 450 mg/kg (LD₅₀);

 Intrapentoneal-Mouse: 650 mg/kg (LD₅₀)

Arbocel 600/30 PU cellulose fiber: CAS No. 9004-34-6, 6.3 % by weight

 Exposure Limits: ACGIH TLV: 5 mg/m³; OSHA: Total dust 15 mg/m³

Toxicity: Cellulosic based fibers are considered a Nuisance Dust (HE19) and should be controlled as described under section VIII. Not listed as a carcinogen. No Nation Toxicology Program.

EMERGENCY OVERVIEW

Product is water clear to white opaque liquid, with slight amine odor. Exposure to this product may cause eye, skin, and nasal or respiratory passage irritation. Avoid contact with strong acids or oxidizers. Product may emit hydrogen cyanide when burned. Formaldehyde is classified as an IARC Group I Human carcinogen (nose and pharynx) and a potential human carcinogen by NTP and OSHA.

HAZARDS IDENTIFICATION

Exposure Effects:

Eyes: may cause burns, reddening and weeping

Inhalation: may cause coughing and burning sensation, bronchitis, laryngitis, pulmonary edema, dizziness, nausea, or respiratory failure and narcosis.

Ingestion: POISON - MAY BE FATAL IF INGESTED. Ingestion may cause burning sensation to mucous membrane, nausea, dizziness, blindness and convulsions.

Skin: may cause 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, use oxygen if indicated. Secure medical attention.

Ingestion: do **NOT** induce vomiting. Wash mouth. If conscious administer 8 oz (240 ml) of milk or water. Contact poison control center. Secure medical attention immediately. If vomiting occurs, administer fluids above again. If unconscious or in convulsions, secure transportation to a hospital immediately.

Skin: remove contaminated clothing, flush contaminated 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 or National Standard CAN/CSA 94.4 – 93 approved self-contained breathing apparatus.

Hazardous combustion products: may be hydrogen cyanide, carbon monoxide, carbon dioxide, formaldehyde, nitrogen oxides.

ACCIDENTAL RELEASE PROCEDURES

Large spills or leaks should be confined by diking so as to prevent entry into natural waters.

Minimal quantities of water should be used to wash spilled materials to waste storage or sumps.

Product may precipitate when rinsed with water. Recycle waste material using proper

adjustment in product use. Small leaks or spills may be recovered with sorbent material.

Dispose of sorbents in compliance with all Federal, State and local regulations. This material is NOT a RCRA hazardous waste if spilled.

HANDLING AND STORAGE

Store this product in a cool place. Rotate stock to use oldest first. Do not store near strong acids.

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 or National Standard CAN/CSA 94.4 – 93 approved respirator suitable for formaldehyde.

Eyes: chemical safety goggles are recommended.

Skin: Wear chemical resistant gloves such as rubber or neoprene when handling in open containers or connecting devices. Avoid repeated or prolonged skin contact. Wash hands and face with soap and water prior to eating or drinking.

PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Water clear to opaque	Odor: faint amine	Physical State: Liquid
pH: 9.0 – 10.0	Vapor Pressure: Not available	Vapor Density: Not available
Boiling Point: ~ 100°C (212°F)	Freezing Point: 0°C (32°F)	Specific Gravity: 1.1 - 1.35
Evaporation Rate: of water	Coefficient. of oil/water distr.: Not applicable	Flash Point : >57.22°C (135°F)
Odor Threshold: Not available	Volatile Wt. %: 25 - 35%	

STABILITY AND REACTIVITY

Exposure to elevated temperatures or strong acids will cause rapid, but non-explosive, polymerization with evolution of formaldehyde, methanol and water.

TRANSPORTATION INFORMATION

Canada	USA
Other regulated substance, liquid, n.o.s. (formaldehyde), Class 9, NA3082, PGIII	<4,999 lbs – Not DOT Regulated
	≥5,000lbs. RQ, Other regulated substance, liquid, n.o.s. (formaldehyde), Class 9, NA3082, PG III

REGULATORY INFORMATION

SARA Title III

Section 304 emergency notification substances contained: formaldehyde (RQ 100 pounds), methanol (5000 pounds).

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

Section 313 emissions reporting: formaldehyde, methanol - see **Hazardous Components**.

Canadian WHMIS Classification: D2A, D2B

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