



Material Safety Data Sheet
 Professional Coatings, Inc.
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HMIS
 Health 2
 Flammability 1
 Reactivity 0

SECTION 1. PRODUCT IDENTIFICATION

Product Name: PRO-COAT MILLENNIUM
 Product Class: Polyurethane Aqueous Dispersion

SECTION 2. HAZARDOUS INGREDIENTS

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>% WT</u>	<u>ACGIH-TLV</u>	<u>OSHA-PEL</u>	<u>VAPOR</u>
					<u>Mm Hg</u>
1-Methyl-2 Pyrroldinone:	872-50-4	1 - 3	Not Established	100 PPM	.29 @ 20 C
1-N-Methyl Pyrrolidone:				(Recommended)	
N,N-Dimethyl Ethanolamine:	108-01-0	< 1	5 PPM	10 PPM (STEL)	4 @ 20 C
Dipropylene Glycol Methyl Ether:		1.5	100 PPM		.55 @ 25 C

SECTION 3. PHYSICAL DATA

Evaporation Rate: Slower Than Ether Boiling Range: 192-396 F
 Vapor Density: Heavier Than Air
 Boiling Range: 192-396 ° F
 % Volatile Weight: 66 %
 WT/GAL: 8.8 lbs.

SECTION 4. FIRE AND EXPLOSION HAZARD DATA

Flammability Classification: OSHA Combustible Liquid Class III B DOT Not Regulated
 Flash Point: Over 200 F Pinsky-Martens CC LEL: 1.2% (TEA)
 Extinguishing Media: Carbon dioxide, dry chemical, water fog.

Unusual Fire and Explosion Hazards:

Material will not support combustion unless the water has evaporated.

SECTION 5. HEALTH HAZARD DATA

Effects of Overexposure:

Eye Contact: May cause severe irritation.
 Inhalation: May cause irritation to nose, throat or lungs.
 Skin: May cause irritation.
 Ingestion: May be harmful if swallowed.

Chronic Health Effects:

Human experience has demonstrated redness, cracking and blistering of skin through repeated and prolonged contact with N-Methyl Pyrrolidone. NMP is reported to be fetotoxic and teratogenic by dermal but not inhalation exposure.

Medical Conditions Prone to Aggravation by Exposure: None known

Primary Route(s) of Entry: Dermal, eye contact, inhalation.

Emergency and First Aid Procedures:

Eyes: Flush immediately with copious quantities of running water for a least 15 minutes.
Consult physician.

Skin: Wash affected areas with soap and water.

Ingestion: Consult physician.

Inhalation: Remove to fresh air.

Note: The health effects of this product have not been tested. This information is based on the hazards of its components.

Rats exposed to an aerosol-vapor mixture of NMP at 1.0 mg/l for 6 hr/days/week for 4 weeks developed excessive mortality, focal pneumonia, bone marrow hypoplasia and atrophy of lymphoid tissue.

Toxicity:

N-Methyl Pyrrolidone: May cause severe eye irritation. Prolonged exposure may cause skin irritation. LD, oral-rat: 4200 mg/kg.
LD, skin-rabbit: 8000 mg/kg

Teratogenic effects: Male and female rats exposed orally to 500 mg/kg/day in feed for 10 weeks before mating and throughout pregnancy, fetolethality. In earlier study, 300 mg/kg/day was a clear no effects level.

N,N-Dimethyl Ethanolamine: Primary irritant of mucous membranes and eyes.
Toxic by ingestion and skin absorption.

LD, oral-rat: 2 g/kg.
LD, skin rabbit: 1370 mg/kg.
LCLo, Inhalation-rat: 1641 ppm/4H.

Note: No constituents are listed as carcinogens by NTP, LARC or OSHA.

SECTION 6. REACTIVITY DATA

Stability: Stable

Hazardous Polymerization: Will not occur.

Hazardous Decomposition Products: Normal combustion products including carbon dioxide, carbon monoxide, and oxides of nitrogen.

Conditions to Avoid: None known.

Incompatibility (Material to Avoid): Strong oxidizers.

SECTION 7. SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled:

Ventilate area. Remove sources of spark or flame. Remove with inert absorbent.

Waste Disposal:

Dispose in accordance with local, state, and federal regulations. This product is not a hazardous waste under RCRA regulations (40 CFR 261).

SECTION 8. SAFE HANDLING AND USE INFORMATION

Respiratory Protection:

If exposed to spray mists exists, wear NOSH- approved organic vapor/particulate respirator. In case of poor ventilation, use NOSH- approved organic vapor mask.

Ventilation:

Sufficient to keep vapor concentration below limits in Section II.

Protective Gloves:

Protective gloves required for direct contact.

Eye Protection:

Safety goggles.

Other Protective Equipment:

No special requirements.

SECTION 9. SPECIAL PRECAUTIONS

Precautions to be Taken in Handling:

Do not get in eyes.

Other Precautions:

Do not take internally. Avoid prolonged or repeated contact with skin. Avoid breathing vapors.

SECTION 10. FOR YOUR PROTECTION

Important Notice to Purchaser. The information in this publication is based on tests that we believe are reliable. Your results may vary due to differences in test types and conditions. You must evaluate and determine whether the product is suitable for you intended application. **Professional Coatings, Inc.** exclusive warranty is as follows: If **Pro-Coat** products are proved defective, the user's exclusive remedy will be, at **Pro-Coat's** option, to replace the defective **Pro-Coat** product or to refund the purchase price for the defective quantity. Except for the replacement or refund remedies, **Pro-Coat** is not liable for direct damages or liable for indirect, incidental or consequential damages, regardless of the legal theory asserted, including negligence and strict liability.