

EXPW106U

<b>1</b>	<b>PRODUCT AND COMPANY IDENTIFICATION</b>
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**Product Identifier:** EXPW106U  
**Common Name:** Waterbased aliphatic polyurethane  
**SDS Number:** I57  
**Revision Date:** 7/31/2015  
**Version:** 1  
**Supplier Details:** Coatings for Industry, Inc.  
 319 Township Line Road  
 Souderton, PA 18964

**Emergency:** Infotrac  
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<b>2</b>	<b>HAZARDS IDENTIFICATION</b>
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**Classification of the substance or mixture****GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):**

Health, Serious Eye Damage/Eye Irritation, 1  
 Health, Skin corrosion/irritation, 1 A  
 Health, Reproductive toxicity, 1 B  
 Health, Acute toxicity, 3 Dermal  
 Health, Acute toxicity, 3 Inhalation  
 Health, Skin corrosion/irritation, 2  
 Health, Serious Eye Damage/Eye Irritation, 2 A  
 Health, Serious Eye Damage/Eye Irritation, 2 B  
 Health, Specific target organ toxicity - Single exposure, 3  
 Health, Acute toxicity, 4 Oral  
 Environmental, Hazards to the aquatic environment - Acute, 3  
 Environmental, Hazards to the aquatic environment - Chronic, 3

**GHS Label elements, including precautionary statements****GHS Signal Word: DANGER****GHS Hazard Pictograms:****GHS Hazard Statements:**

H318 - Causes serious eye damage  
 H314 - Causes severe skin burns and eye damage  
 H360 - May damage fertility or the unborn child  
 H311 - Toxic in contact with skin  
 H331 - Toxic if inhaled  
 H315 - Causes skin irritation  
 H319 - Causes serious eye irritation  
 H320 - Causes eye irritation  
 H336 - May cause drowsiness or dizziness  
 H302 - Harmful if swallowed  
 H402 - Harmful to aquatic life

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H412 - Harmful to aquatic life with long lasting effects

**GHS Precautionary Statements:**

no GHS precautionary statements indicated

**3 COMPOSITION/INFORMATION OF INGREDIENTS****Ingredients:**

Cas#	%	Chemical Name
121-44-8	0.5-1.5%	Triethylamine
872-50-4	6.0-8.0%	1-Methyl-2-pyrrolidone
0	15-25%	Polyurethane polymer
7732-18-5	65.5-78.5%	water

**4 FIRST AID MEASURES**

<b>Inhalation:</b>	If inhaled, remove to fresh air. Get medical attention if irritation develops.
<b>Skin Contact:</b>	In case of skin contact, wash affected areas with soap and water. Immediately remove contaminated clothing and shoes. Get medical attention if irritation develops.
<b>Eye Contact:</b>	In case of contact, flush eyes with plenty of lukewarm water. Get medical attention if irritation develops.
<b>Ingestion:</b>	If ingested, do not induce vomiting unless directed to do so by medical personnel. Get medical attention.

**5 FIRE FIGHTING MEASURES**

<b>Flash Point:</b>	Greater than 200F
<b>Flash Point Method:</b>	TCC
Extinguishing Media - Alcohol, foam, CO <sub>2</sub> , dry chemical	
Unusual Fire and Explosion Hazards - Material will not sustain combustion but closed containers may explode due to build up of steam pressure when exposed to heat.	

**6 ACCIDENTAL RELEASE MEASURES**

Avoid breathing vapors. Ventilate area. Remove with inert absorbent.

**7 HANDLING AND STORAGE**

<b>Handling Precautions:</b>	Avoid repeated or prolonged contact with skin. Do not take internally.
<b>Storage Requirements:</b>	Do not store above 120 F. Keep from freezing. Do not leave containers open.

<b>8</b>	<b>EXPOSURE CONTROLS/PERSONAL PROTECTION</b>
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**Engineering Controls:** Provide general dilution or local exhaust ventilation in volume and pattern to keep TLV of hazardous ingredients below acceptable and stated limits.

**Personal Protective Equipment:** Protective Gloves - Required - polyethylene lined recommended.  
 Eye Protection - Use safety eye wear to protect against splashed liquid.  
 Other Protective Equipment - Protective overalls will prevent clothing contamination and skin irritation.  
 Respiratory Protection - In restricted ventilation areas, use Bureau of Mines approved chemical-mechanical filters designed to remove gas and vapor. In confined areas, use Bureau of Mines air line type respirator or hood.

**Triethylamine (121-44-8)**

Components with workplace control parameters

TWA 1 ppm USA. ACGIH Threshold Limit Values (TLV)

Visual impairment  
 Not classifiable as a human carcinogen  
 Danger of cutaneous absorption

STEL 3 ppm USA. ACGIH Threshold Limit Values (TLV)

Visual impairment  
 Not classifiable as a human carcinogen  
 Danger of cutaneous absorption

TWA 10 ppm USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000  
 40 mg/m3

STEL 15 ppm USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000  
 60 mg/m3

TWA 25 ppm USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants  
 100 mg/m3

The value in mg/m3 is approximate.  
 See Appendix D - Substances with No Established RELs

**1-Methyl-2-pyrrolidone (872-50-4)**

TWA 10 ppm USA. Workplace Environmental Exposure Levels (WEEL)  
 Skin

<b>9</b>	<b>PHYSICAL AND CHEMICAL PROPERTIES</b>
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<b>Appearance:</b>	Translucent Green	<b>Odor:</b>	Slight ammonia odor
<b>Physical State:</b>	Liquid	<b>Solubility:</b>	Miscible in water
<b>Spec Grav./Density:</b>	1.05-1.15	<b>Percent Volatile:</b>	65-70%

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**10 STABILITY AND REACTIVITY**

<b>Chemical Stability:</b>	This product is stable
<b>Conditions to Avoid:</b>	Protect from freezing
<b>Materials to Avoid:</b>	Oxidizing agents, isocyanates
<b>Hazardous Decomposition:</b>	By Fire: Carbon Dioxide Carbon Monoxide Nitrogen oxides (NOx), Amines, other aliphatic fragments which have not been determined
<b>Hazardous Polymerization:</b>	Hazardous polymerization will not occur.

**11 TOXICOLOGICAL INFORMATION****Triethylamine (121-44-8)**

Information on toxicological effects

Acute toxicity:

LD50 Oral - rat - 730 mg/kg  
LC50 Inhalation - rat - 4 h - 7.1 mg/l  
LD50 Dermal - rabbit - 580 mg/kg  
no data available

Skin corrosion/irritation: Skin - rabbit Result: Extremely corrosive and destructive to tissue.  
Serious eye damage/eye irritation: no data available  
Respiratory or skin sensitisation: no data available  
Germ cell mutagenicity: no data available

Carcinogenicity:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.  
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.  
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available  
Specific target organ toxicity - single exposure: no data available  
Specific target organ toxicity - repeated exposure: no data available  
Aspiration hazard: no data available

Additional Information:

RTECS: YE0175000

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting  
Central nervous system - Irregularities - Based on Human Evidence

**1-Methyl-2-pyrrolidone (872-50-4)**

Information on toxicological effects

Acute toxicity:

LD50 Oral - rat - 3,914 mg/kg  
LDLO Inhalation - rat - 4 h - > 5100 ppm  
LD50 Dermal - rabbit - 8,000 mg/kg

Skin corrosion/irritation: no data available  
Serious eye damage/eye irritation: Eyes - rabbit Result: Eye irritation

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Respiratory or skin sensitisation: no data available  
Germ cell mutagenicity: no data available

## Carcinogenicity:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: Damage to fetus possible

Specific target organ toxicity - single exposure: Inhalation - May cause respiratory irritation.

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available

## Additional Information:

RTECS: UY5790000

prolonged or repeated exposure can cause: Vomiting, Diarrhoea, Abdominal pain, Rats exposed to 1-methyl-2- pyrrolidinone at a concentration of 1 mg/L as an aerosol for 10 days showed depletion of hematopoietic cells in the bone marrow and atrophy of the lymphoid tissues of the thymus, spleen, and lymph nodes.

Bone marrow - Irregularities - Based on Human Evidence

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## ECOLOGICAL INFORMATION

**Triethylamine (121-44-8)**

Information on ecological effects

## Toxicity:

Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 43.7 mg/l - 96 h.

LC50 - Oncorhynchus mykiss (rainbow trout) - 126 - 150 mg/l - 60 d

LOEC - Danio rerio (zebra fish) - 320 mg/l - 7 d

Toxicity to daphnia and EC50 - Daphnia magna (Water flea) - 200 mg/l - 48 h.

other aquatic invertebrates

Toxicity to bacteria LC50 - Bacteria - 95 mg/l - 17 h.

Persistence and degradability: no data available

Bioaccumulative potential: no data available

Mobility in soil: no data available

Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Harmful to aquatic life.

no data available

## 1-Methyl-2-pyrrolidone (872-50-4)

Information on ecological effects

Toxicity:

Toxicity to fish LC50 - other fish - 4,000 mg/l - 96 h.

LC50 - Leuciscus idus (Golden orfe) - > 500 mg/l - 96 h

Toxicity to daphnia and EC50 - Daphnia magna (Water flea) - > 1,000 mg/l - 24 h.  
other aquatic invertebrates

Toxicity to bacteria LC50 - Bacteria - > 9,000 mg/l:

Persistence and degradability: Biodegradability Result: 90 % - Readily biodegradable.

Bioaccumulative potential: no data available

Mobility in soil: no data available

Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: no data available

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## DISPOSAL CONSIDERATIONS

Product: Offer surplus solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Comply with all local, state, and federal waste disposal regulations.

Contaminated packaging: Dispose of as unused product.

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## TRANSPORT INFORMATION

Not regulated for transportation.

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**15 REGULATORY INFORMATION**

Component (CAS#) [%] - CODES

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Triethylamine (121-44-8) [0.5-1.5%] CERCLA, CSWHS, HAP, MASS, OSHAWAC, PA, SARA313, TSCA, TXAIR

1-Methyl-2-pyrrolidone (872-50-4) [6.0-8.0%] MASS, NJHS, PA, SARA313, TSCA

Polyurethane polymer (0) [15-25%]

Water (7732-18-5) [65.5-78.5%] TSCA

Regulatory CODE Descriptions

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CERCLA = Superfund clean up substance  
CSWHS = Clean Water Act Hazardous substances  
HAP = Hazardous Air Pollutants  
MASS = MA Massachusetts Hazardous Substances List  
OSHA = OSHA Workplace Air Contaminants  
PA = PA Right-To-Know List of Hazardous Substances  
SARA313 = SARA 313 Title III Toxic Chemicals  
TSCA = Toxic Substances Control Act  
TXAIR = TX Air Contaminants with Health Effects Screening Level  
NJHS = NJ Right-to-Know Hazardous Substances**16 OTHER INFORMATION**

**NOTICE :** This information is presented in good faith and believed to be accurate as of the effective date below. However, no warranty is express or implied regarding the accuracy of this data or the results to be obtained from the use thereof. Coatings For Industry, Inc. assumes no responsibility for personal injury or property damage to vendees, users, or third parties caused by the material, such vendees or users assume all risks associated with the use of the material. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The preceding specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations.