

1	PRODUCT AND COMPANY IDENTIFICATION
Product Identifier:	EXPW191U Clear
Common Name:	Waterbased aliphatic polyurethane
SDS Number:	I46
Revision Date:	6/16/2015
Version:	1
Supplier Details:	Coatings for Industry, Inc. 319 Township Line Road Souderton, PA 18964
Emergency:	Infotrac
Contact:	USA: 1-800-535-5053 / International :352-323-3500
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HAZARDS IDENTIFICATION

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:

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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
- SDS Number: I46



H412 - Harmful to aquatic life with long lasting effects

GHS Precautionary Statements:

no GHS precautionary statements indicated

COMPOSITION/INFORMATION OF INGREDIENTS

Ingredients:

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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

FIRST AID MEASURES

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

5	FIRE FIGHTING MEASURES
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Flash Point:

Greater than 200F

TCC

Flash Point Method:

Extinguishing Media - Alcohol, foam, CO2, 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.

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ACCIDENTAL RELEASE MEASURES

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

7 HANDLING AND STORAGE

 Handling Precautions:
 Avoid repeated or prolonged contact with skin. Do not take internally.

 Storage Requirements:
 Do not store above 120 F. Keep from freezing. Do not leave containers open.



8		EXPOSURE CONTROLS/PERSONAL PROTECTION		
Engineerin Personal P Equipment		Provide general dilution or local exhaust ventilation in volume and pattern to keep TLV of hazardous ingredients below acceptable and stated limits. 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.		
Triethylan	nine (121-4	4-8)		
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 40 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000		
STEL	15 ppm 60 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000		
TWA	25 ppm 100 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air		
	•	Contaminants approximate. stances with No Established RELs		

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

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

9	PHYSICAL AND CHEMICAL PROPERTIES			
Appearance:	Clear to milky white	Odor:	Slight ammonia odor	
Physical State:	Liquid	Solubility:	Miscible in water	
Spec Grav./Density:	1.05-1.15	Percent Volatile:	65-70%	



STABILITY AND REACTIVITY

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

11 TOXICOLOGICAL INFORMATION

Triethylamine (121-44-8)

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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 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



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

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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REGULATORY INFORMATION

Component (CAS#) [%] - CODES

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

CERCLA = Superfund clean up substance CSWHS = Clean Water Act Hazardous substances HAP = Hazardous Air Pollutants MASS = MA Massachusetts Hazardous Substances List OSHAWAC = 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

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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.