



Safety Data Sheet

Preformed Line Products, Inc.

Product Name: UI-5854 Part B Curative

Issue Date: 5/1/15

1. Product and Company Identification

Product Name: UI-5854 Part B Curative

Chemical Family: Modified amine blend

Synonyms: Hard Encapsulant Part B

Company Identification

Preformed Line Products, Inc.
1700 Woodhurst Lane
Albemarle, NC 28001
United States

24-hour Emergency Telephone Numbers:

1 800 424 9300 (CHEMTREC)
1 704 984 4817 (Local)

2. Hazards Identification

According to Regulation 2012 OSHA Hazard Communication Standard: 29 CFR Part 1910.1200

(based on component data)

Classification of the product

Flammable liquid	4	
Acute toxicity - oral	4	
Acute toxicity - dermal	4	
Serious eye damage / eye irritation	2	
Skin corrosion / irritation	2	
Specific target organ toxicity	2	(repeated exposure)
Acute aquatic toxicity	1	
Chronic aquatic toxicity	1	
Reproductive toxicity	1B	(unborn child)
Specific target organ toxicity		
Single exposure -	3	(irritating to respiratory system)
Repeated exposure -	2	



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Label elements

Pictogram:

Signal Word: Warning !



Hazard Statement:

H227	Contains combustible liquid.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H360	May damage fertility or the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary Statements (Prevention):

P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
P260	Do not breathe dust/gas/mist/vapors.
P264	Wash with plenty of water and soap thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves, protective clothing, eye protection, face protection

Precautionary Statements (Response):

P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. If present and easy to remove, remove contact lenses. Continue rinsing.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P303+P352	IF ON SKIN or hair: Wash with plenty of soap and water.



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P308+P311 If exposed or concerned: Call a POISON CENTER or doctor/physician.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P337+P311 If eye irritation persists: Call a POISON CENTER or physician.
P362+P364 Take off contaminated clothing and wash before reuse.
P370+P378 In case of fire: Use water spray, dry powder, foam or carbon dioxide for extinction.

Precautionary Statement (Storage)

P233 Keep container tightly closed.
P403 + P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.

Precautionary Statement (Disposal)

P501 Dispose of contents/containers to hazardous or special waste collection point. Contact a professional waste disposal unit if required.

Hazards not otherwise classified

Approximately 1% of the mixture consists of ingredients of unknown toxicity

3. Composition information

<u>CAS #</u>	<u>Amount</u>	<u>Component</u>
872-50-4	>15 - < 45 %	N-Methylpyrrolidone
68479-98-1	>15 - < 45 %	Benzenediamine,ar,ar-diethyl-ar-methyl-
5285-60-9	>15 - < 45 %	4,4'-methylenebis[N-sec-butylaniline]

4. First-Aid Measures

Most important symptoms and effects, both acute and delayed

This material is harmful to skin, eyes and respiratory system. Harmful if swallowed.

If inhaled: Move the affected individual to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, apply artificial respiration. Immediate medical attention required.

If on skin: Wash affected areas thoroughly with soap and water. If irritation develops, seek medical attention. Wash clothing before reuse.



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If in eyes: Rinse continuously with water for at least 15 minutes. Remove contact lenses if present and easy to do – continue rinsing. Seek medical attention.

If swallowed: Clean mouth with water. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Seek immediate medical attention/advice.

5. Fire-Fighting Measures

Suitable extinguishing media: water fog or fine spray, dry powder, carbon dioxide or alcohol-resistant foam.

Fire-fighting hazards: carbon oxides, nitrous oxides, hazardous product fumes.

Fire-fighting PPE: self-contained breathing apparatus and turn-out gear.

Additional information: Collect contaminated extinguishing water separately. Uncontained fire-water runoff may result in environmental damage.

6. Accidental Release Measures

Personal precautions: Ensure adequate ventilation. See section 8 for PPE.

Environmental precaution: Contain any spill with dikes or absorbents to prevent migration and entry into sewers or streams. Inform respective authorities in case of seepage into water course or sewage system. May require excavation of contaminated soil.

Cleanup: Prevent further leakage or spillage if safe to do so. Take up small spills with dry chemical absorbent. Large spills may be taken up with pump or vacuum and finished off with dry chemical absorbent. Dispose of absorbed material in accordance with regulations.



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7. Handling and Storage

Handling

General: See "Section 2" for hazards and precautions. See "Section 8" for PPE. Use local exhaust ventilation to maintain recommended P.E.L. - see "Section 11". One component of this product is combustible (cc flash point = 196 °F) . Protect against fire and explosion.

Storage

General: Containers should be tightly sealed and stored in a dry place, away from heat and direct sunlight. Outage of containers should be filled with a dry inert gas at atmospheric pressure to preserve product.

Incompatibility: Segregate from acids and oxidizing agents.

Stability: Protect against moisture. Store at 65-110 °F.

8. Exposure Controls and Personal Protection

Recommendation: Use local exhaust ventilation to maintain recommended P.E.L. - see "Section 11". Emergency showers and eyewash stations should be easily available.

Respiratory protection: Where atmospheric levels may exceed the exposure guideline, use an approved air-purifying respirator equipped with an organic vapor sorbent and a particle filter. For emergency or non-routine high exposure situations, including confined space, use a NIOSH-certified full facepiece pressure demand self-contained breathing apparatus or a full facepiece pressure demand supplied air respirator with escape provisions.

Hand protection: Wear chemical resistant protective gloves., butyl rubber (butyl) - 0.7 mm coating thickness.

Eye protection: Safety glasses with side-shields. Wear face shield or tightly fitting chemical goggles if splashing hazard exists.

Body protection: Use protective clothing that is chemically resistant. Selection of specific items such as face shield, boots, apron, etc. will be task dependent.



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9. Physical and Chemical Properties

Form:	Liquid	
Odor:	Mild amine odor	
Color:	Amber to dark amber	
pH:	Not available	(basic amines)
Specific Gravity	1.025	25 °C
Boiling point	200 °C	(Decomposes)
Solubility in water:	CAS# 872-50-4 is miscible in water and may extract out of the remaining insoluble components.	
Flash point	> 196 °F	ASTM D93
Viscosity	170 cP	25 °C

10. Stability and Reactivity

Conditions to avoid: Avoid all sources of ignition: heat, sparks, open flame, exposure to air.

Substances to avoid: strong acids, oxidizing agents

Hazardous reactions: Reacts with strong acids and alkalies. Reacts with oxidizing agents.

Decomposition products: carbon monoxide, carbon dioxide, nitrogen oxides

Chemical Stability: Stable if stored and handled as prescribed/indicated.

Thermal decomposition: None if stored and handled as prescribed/indicated.

Corrosion to metals: Not corrosive to metals.

Oxidizing properties: Not fire-propagating

11. Toxicological Information

Toxicology values have not been determined on this material. Toxicology values reported below are taken from component data.



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Primary Routes of exposure: SOLIDS AND LIQUIDS: inhalation, skin contact, eye contact, ingestion.

Acute Toxicity/Effects

Harmful if absorbed through skin or swallowed. Irritating to respiratory system. Mildly irritating to eyes.

Acute toxicity

Oral: LD50, rat, 757 mg/kg

Inhalation: Insufficient data.

Dermal: LD50, rabbit, >2000 mg/kg

Irritation/corrosion

Skin: result = irritating, rabbit, Draize test

Eye: result = irritating, rabbit, Draize test

Assessment: Irritating to eyes, respiratory system and skin.

Sensitization

There is no component data to suggest that this material will be sensitizing.

Chronic toxicity effects

Repeated exposure - Causes damage to organs through prolonged or repeated exposure - pancreas, liver, thyroid and eyes.

Genetic toxicity - None of the components are reported to be mutagenic.

Carcinogenicity - None of the components are reported to be carcinogenic.

Reproductive toxicity - May cause damage to testes after repeated high exposures that cause other toxic effects.

Teratogenicity - One component caused malformations/developmental toxicity in laboratory animals.



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12. Ecological Information

Eco-toxicology values have not been determined on this material. Eco-toxicology values reported below are taken from component data.

Assessment of aquatic toxicity: Very toxic to aquatic life with long lasting effects.

Fish

Freshwater fish, LC50, 96 hrs, >104 mg/l.

Freshwater fish, LC50, 48 hrs, 200 mg/l.

Aquatic invertebrates

Water fleas, EC50, 48 hrs, 5.8 mg/l.

Water fleas, LC50, 48 hrs, 0.5 mg/l.

Aquatic plants

Freshwater algae, EC50, 72 hrs, 104 mg/l.

Freshwater algae, EC10, 72 hrs, 54 mg/l.

Degradability/Persistence

Not determined for this product. Information not available on all components. Available information suggests that the product is not readily biodegradable.

Bio accumulative potential

Not determined for this product. Information not available on all components. Available information suggests that the bio accumulative potential is high.

Mobility in soil

Various components may evaporate into the atmosphere and/or partition to soil and water.

13. Disposal considerations

Waste disposal of substance:

Incinerate or dispose of in a licensed facility. Do not discharge substance/product into sewer system.



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Container disposal:

Treat empty containers as product waste. Do not rinse residue into sewer system.

14. Transport information

Land transport (USDOT)

Not classified as a dangerous good under transport regulations

Sea transport (IMDG/IMO)

IMO Class	9
Packing Group	III
UN-No	3082
IMO Labelling and Marketing	9 + Marine Pollutant marking
Proper Shipping Name	Environmentally hazardous substance liquid, N.O.S. (Diethyltoluenediamine)
EmS	F-A, S-F
Marpol - Annex II	Not determined
Marpol - Annex III	Marine Pollutant
Transport Description	UN 3082 Environmentally hazardous substance liquid, N.O.S. (Diethyltoluenediamine), 9, III, Marine Pollutant

Air transport (IATA/ICAO)

IATA/ICAO Class	9
Packing Group	III
UN-No	3082
IATA/ICAO Labelling and Marketing	9 + "Environmentally hazardous substance" mark
Passenger aircraft	Maximum net quantity per package 450L
Cargo aircraft only	Maximum net quantity per package 450L
Proper Shipping Name	Environmentally hazardous substance liquid, N.O.S. (Diethyltoluenediamine)
Transport Description	UN 3082 Environmentally hazardous substance liquid, N.O.S. (Diethyltoluenediamine), 9, III

15. Regulatory information



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Federal Regulations

Registration status:

Chemical TSCA, US released / listed

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

SARA 311/312 Hazardous Categorization:

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

State Regulations

State Right to Know: MA, NJ, PA

CAS Number: 872-50-4

Chemical Name: N-Methylpyrrolidone

CA Prop 65:

THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

NFPA Hazard Codes

Health: 2 Fire: 2 Reactivity: 0 Special: