



# Safety Data Sheet

## 1. Product and company identification

<b>Product Name</b>	<b>Poly-Tron Primer – Part B</b>	
<b>Internal Code(s)</b>	260920; 260963	
<b>Product Type</b>	Curing Agent for Epoxy Resin	
<b>Product Use</b>	Civil Engineering Resin System	
<b>Manufacturer/Supplier</b>	RJ Watson, Inc. 11035 Walden Ave. Alden, NY 14004 U.S.A.	www.rjwatson.com sales@rjwatson.com
<b>Revision Date</b>	8-MAR-2016	
<b>Telephone</b>	<b>For 24-Hour Emergency Response Information</b> Call ChemTel: (800) 255-3924 (U.S./Canada) +1-813-248-0585 (International)	
	<b>For Other Product or Technical Information</b> Call RJ Watson, Inc.: (716) 901-7020	

## 2. Hazards identification

<b>Product Form</b>	Black liquid
<b>OSHA/HCS status</b>	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

<b>Hazard Category Classification:</b>	Acute Toxicity – Inhalation	4	Toxicity via inhalation of mists
	Skin Corrosion / Irritation	1C	Skin Corrosion; Sub-Category 1C
	Serious Eye Damage / Eye Irritation	1	Serious eye damage / irreversible effects on the eye
	Skin Sensitization	1	Skin Sensitizer
	Germ Cell Mutagenicity	1B	Regarded as inducing heritable mutations in germ cells
	Carcinogenicity	1A	Known to have carcinogenic potential
	Reproductive Toxicity	1B	Presumed human reproductive toxicant
	Specific Target Organ Toxicity (Repeated Exposure)	2	Presumed to have the potential to be harmful to human health following repeated exposure.
	Hazardous to the Aquatic Environment – Long-Term (Chronic) Hazard	1	Long-term (chronic) aquatic hazard.

GHS Pictogram(s):



Signal Word: **DANGER**

<b>Hazard Statement:</b>	H332	Harmful if Inhaled.
	H314	Causes severe skin burns and eye damage.
	H317	May cause an allergic skin reaction.
	H340	May cause genetic defects.
	H350	May cause cancer.
	H360	May damage fertility or the unborn child.

H373	May cause damage to organs (blood, thymus, liver) through prolonged or repeated exposure (by oral route of exposure).
H410	Very toxic to aquatic life with long lasting effects.

**Precautionary Statements:**

**Prevention:**

P260	Do not breathe dusts or mists.
P271	Use only outdoors or in a well-ventillated area.
P264	Wash hands and exposed skin thoroughly after handling.
P280	Wear protective (chemical-resistant impervious rubber) gloves / protective clothing / eye protection / face protection.
P272	Contaminated work clothing should not be allowed out of the workplace.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P273	Avoid release to the environment.

**Response:**

P304 + P340	<b>IF INHALED:</b> Remove person to fresh air and keep comfortable for breathing.
P310	Immediately call a POISON CENTER / doctor / physician.
P301 + P330 + P331	<b>IF SWALLOWED:</b> Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353	<b>IF ON SKIN (or hair):</b> Take off immediately all contaminated clothing. Rinse skin with plenty of water or shower.
P333 + P313	If skin irritation or rash occurs: Get medical advice / attention.
P363	Wash contaminated clothing before reuse.
P305 + P351 + P338	<b>IF IN EYES:</b> Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	If exposed or concerned: Get medical advice / attention.
P314	Get medical advice / attention if you feel unwell.
P391	Collect spillage.

**Storage:**

P405	Store locked up.
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**Disposal:**

P501	Dispose of contents / container to a disposal facility in accordance with all local / national / international regulations.
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### 3. Composition/Information on ingredients

<u>Ingredient name</u>	<u>CAS number</u>	<u>WT %</u>
Coal Tar Pitch	65996-93-2	45.0 – 55.0%
Diethylenetriamine (DETA)	111-40-7	5.0 – 20.0%
Phenol, 4,4'-(1-methylethylidene)bis-	80-05-7	5.0 – 20.0%
para-Nonylphenol	84852-15-3	5.0 – 15.0%
ATBN Polymer	68683-29-4	5.0 – 15.0%
n-Aminoethylpiperazine	140-31-8	0.3 – 1.0%

### 4. First aid measures

**Eye contact**

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention.

**Skin contact**

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. In the event of any complaints or symptoms, avoid further exposure. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

**Inhalation**

Move exposed person to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention

immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**Ingestion**

If Swallowed, immediately call a POISON CENTER or doctor/physician. Never give anything by mouth to a victim who is unconscious or is having convulsions. Wash out mouth with water. Remove dentures, if any. Move exposed person to fresh air. Keep person warm and at rest. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**Notes to physician**

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Application of corticosteroid cream has been effective in treating skin irritation.

<b>5. Fire-fighting measures</b>
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**Flammability properties of the product**

**Flash Point:** >93°C (>200°F)  
**Flash Point Method Used:** Pensky-Martens Closed Cup (ASTM D-93)  
**Flammable Limits in Air (Lower - % by volume):** Not determined  
**Flammable Limits in Air (Upper - % by volume):** Not determined

**Extinguishing media**

**Suitable**

Alcohol-resistant Foam, Carbon Dioxide, Dry Chemical, Dry Sand

**Not suitable**

High-Pressure Water Spray (may spread burning material).

**Special exposure hazards**

Wear self-contained breathing apparatus (SCBA) to protect from hazardous combustion products. Be aware of the explosive rupture potential of sealed containers of this product under fire and/or excessive heating conditions.

**Hazardous combustion products**

Carbon Monoxide, Carbon Dioxide, Nitrogen Oxides, Sulfur Oxides, Toxic fumes,

**Unusual Fire and Explosion Hazards**

Sealed, fire-exposed containers may build up dangerous pressure, potentially resulting in explosive rupture. Keep sealed fire-exposed containers cool with water spray.

**Special protective equipment & instructions for fire-fighters**

Fire-fighters should wear appropriate protective equipment. Wear self-contained breathing apparatus and complete personal protective equipment when entering confined areas where potential for exposure to vapors or products of combustion exists. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. Prevent fire-fighting water from entering environment.

<b>6. Accidental release measures</b>
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**Personal precautions**

No action shall be taken involving any personal risk or without suitable training. Put on appropriate personal protective equipment (see section 8).

**Environmental precautions**

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

**Spill Response**

Clean up large spills with vacuum truck. Soak up small spills with absorbent material and place in labeled containers for recovery or disposal.

## 7. Handling and storage

**Handling** Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Avoid breathing vapor or mist. Avoid contact with eyes, skin, and clothing. Avoid tasting or swallowing. Keep container closed when not in use. Use with adequate ventilation. Wash thoroughly after handling.

**Storage** Keep in the original container or an approved alternative made from a compatible material, kept tightly sealed when not in use. Take measures to prevent the introduction of water or atmospheric moisture. Store at room temperature in a dry place away from heat and direct sunlight. Store in accordance with all local and government regulations. Recommended storage temperature: 59 - 95°F (15 - 35°C).

## 8. Exposure controls/personal protection

CAS Number	Chemical Identity	Exposure Limits				
		ACGIH		OSHA		NIOSH
		TWA	STEL	PEL	STEL	REL
65996-93-2	Coal Tar Pitch <i>Coal tar pitch volatiles (benzene soluble fraction)</i>	0.2 mg/m <sup>3</sup>	N.E.	0.2 mg/m <sup>3</sup>	N.E.	N.E.
111-40-7	Diethylenetriamine (DETA)	1 ppm	N.E.	1 ppm	N.E.	1 ppm
80-05-7	Phenol, 4,4'-(1-methylethylidene)bis-	N.E.	N.E.	N.E.	N.E.	N.E.
84852-15-3	para-Nonylphenol	N.E.	N.E.	N.E.	N.E.	N.E.
68683-29-4	ATBN Polymer	N.E.	N.E.	N.E.	N.E.	N.E.
140-31-8	n-Aminoethylpiperazine	N.E.	N.E.	N.E.	N.E.	N.E.

**Recommended monitoring procedures** If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

**Engineering measures** Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**Hygiene measures** Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are located in the work area.

**Respiratory** Use a properly fitted, air-purifying or air-supplied respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

**Eyes** Chemical splash goggles and full face shield are recommended.

**Skin** Impervious gloves made of Neoprene, Butyl Rubber or Nitrile Rubber should be used. Wear additional protective clothing to prevent skin contact. This may include aprons, chemical resistant boots, and chemical resistant suits. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

## 9. Physical and chemical properties

<b>Form</b>	Liquid
<b>Color</b>	Black
<b>pH</b>	Alkaline (pH > 7.0)
<b>Boiling point</b>	Not determined
<b>Freezing Point</b>	Not determined
<b>Specific gravity</b>	1.09
<b>Vapor pressure</b>	< 5.17 mmHg at 70 °F (21 °C)
<b>Odor threshold</b>	Tar and ammonia-like odor
<b>Solubility in water</b>	Slightly soluble. Reacts slowly with water to form ammonia.
<b>Evaporation rate</b>	Not Determined; anticipated to be slower than Butyl Acetate.
<b>Vapor density</b>	Not Determined; anticipated to be heavier than air (>1)

## 10. Stability and reactivity

<b>Stability</b>	The product is stable. Under normal conditions of storage and use, hazardous polymerization will not occur.
<b>Conditions to avoid</b>	Sparks, open flames, and other sources of ignition. Product slowly corrodes copper, aluminum, zinc and galvanized surfaces. CAUTION! N-Nitrosamines, many of which are known to be potent carcinogens, may be formed when the product comes in contact with nitrous acid, nitrites or atmospheres with high nitrous oxide concentrations.
<b>Materials to avoid</b>	Reactive or incompatible with the following materials: Oxidizing agents. Reaction with peroxides may result in violent decomposition of peroxide, possibly creating an explosion. Sodium hypochlorite. Organic acids (i.e. acetic acid, citric acid etc.) and mineral acids. Nitrous acid and other nitrosating agents. Reactive metals (e.g. sodium, calcium, zinc etc.). Materials reactive with hydroxyl compounds. Heat and/or water and atmospheric moisture will degrade product quality.
<b>Other hazards</b>	Curing reaction may release significant heat when mixed with Part A.
<b>Hazardous decomposition products</b>	Decomposition products upon combustion may include the following materials: Nitrogen Oxides, Nitric Acid, Ammonia, Carbon Dioxide; Carbon Monoxide, Nitrosamines.

## 11. Toxicological information

<b><u>Acute toxicity</u></b>	LD50 Oral	Rat	2200 mg/kg (Acute Toxicity Estimate)
	LD50 Dermal	Rabbit	2127 mg/kg (Acute Toxicity Estimate)
	LC50 Inhalation	Rat	1.36 mg/L (aerosol/mist); (ATE)
<b><u>Skin Irritation</u></b>	Prolonged exposure may cause destruction of skin tissue. Severe skin irritation.		
<b><u>Eye Irritation</u></b>	Severe eye irritation.		
<b><u>Sensitization</u></b>	May cause sensitization by skin contact.		
<b><u>Mutagenicity</u></b>	There is evidence of mutagenic potential.		
<b><u>Reproductive Toxicity</u></b>	May damage fertility or the unborn child.		
<b><u>Carcinogenicity Classification</u></b>	IARC	Group 1: Human Carcinogen (Coal tar pitch)	
	NTP	Known Human Carcinogen (Coal tar pitch)	
	OSHA	Not regulated as a carcinogen	
	ACGIH	A1 Known human carcinogen (Coal tar pitch)	

## 12. Ecological information

### Component Aquatic Eco-toxicity

para-Nonylphenol  
(CAS # 84852-15-3)

#### Fish

Fathead Minnow: Acute LC50: 0.1383 mg/L (96 Hours)

Rainbow Trout, Donaldson Trout: Acute LC50: 0.14 - 0.23 mg/L (96 Hours)

#### Daphnia

Acute EC50: 0.035 mg/L (48 Hours)

#### Algae

Acute LC50: 0.0563 mg/L (72 Hours)

### Environmental effects

Expected to be very toxic to aquatic organisms. May cause long term adverse effects in the environment. Partially biodegradable. This product has potential to bioaccumulate.

## 13. Disposal considerations

### Waste disposal

The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## 14. Transport information

The data provided in this section is for information only and may not be specific to each package size or mode of transport. Apply the appropriate regulations to properly classify your shipment for transportation.

### International transport regulations

Regulatory information	UN/NA number	Proper shipping name	Classes/*PG	Reportable Quantity (RQ)
CFR	UN3267	Corrosive Liquid, Basic, Organic, N.O.S. (Diethylenetriamine, para-Nonylphenol)	8, PGIII	292 Lbs.**
TDG	UN3267	Corrosive Liquid, Basic, Organic, N.O.S. (Diethylenetriamine, para-Nonylphenol) Marine Pollutant	8, PGIII	292 Lbs.**
IMO/IMDG	UN3267	Corrosive Liquid, Basic, Organic, N.O.S. (Diethylenetriamine, para-Nonylphenol) Marine Pollutant	8, PGIII	292 Lbs.**
IATA	UN3267	Corrosive Liquid, Basic, Organic, N.O.S. (Diethylenetriamine, para-Nonylphenol) Marine Pollutant	8, PGIII	292 Lbs.**

\*PG : Packing group

**LIMITED QUANTITIES:** When limited quantities of this product are offered for transportation, except by air, and packaged in proper combination packages with individual inner containers of less than 5.0 L (1.3 gallons) net capacity each, this product may ship as LIMITED QUANTITY. Placarding rules may still apply. The IMDG Code does not require Limited Quantity packages to be identified or labeled as Marine Pollutants when shipped by sea/ocean.

**\*\*REPORTABLE QUANTITY (RQ):** Individual containers of this product that exceed the RQ of 292 Lbs. (113.4 kg) net weight, contain the following substances above their individual RQ limits:

Benzo(b)fluoranthene (CAS # 205-99-2); Substance RQ = 1 Lb.

Benzo(a)pyrene (CAS # 50-32-8); Substance RQ = 1 Lb.

## 15. Regulatory information

### US regulations

#### **HCS Classification**

When used for its intended purpose, this material is classified as hazardous in accordance with OSHA 29CFR 1910.1200.

#### **U.S. Federal regulations**

##### **SARA Title III, Section 311/312 Classification**

Immediate (Acute) health hazard

Long-Term (Chronic) health hazard

##### **SARA Title III, Section 313 - Supplier Notification**

This product contains the following toxic chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986, and Subpart C-Supplier Notification Requirement of 40 CFR Part 372.

Phenol, 4,4'-(1-methylethylidene)bis- (CAS # 80-05-7)

Polycyclic Aromatic Hydrocarbons (PAC's) (Category N590); 2.4 – 4.2 wt%

Phenanthrene (CAS # 85-01-8); 0.5 – 1.5 wt%

Naphthalene (CAS # 91-20-3); 0.4 – 0.7 wt%

##### **SARA Section 302 Extremely Hazardous Substances**

Pyrene (CAS # 129-00-0); 0.5 – 1.0 wt%.

#### **State regulations**

##### **Massachusetts RTK Substances**

Coal Tar Pitch (CAS # 65996-93-2)

Diethylenetriamine (CAS # 111-40-0)

Phenol, 4,4'-(1-methylethylidene)bis- (CAS # 80-05-7)

Phenanthrene (CAS # 85-01-8)

Naphthalene (CAS # 91-20-3)

##### **New Jersey RTK Hazardous Substances**

Coal Tar Pitch (CAS # 65996-93-2)

Diethylenetriamine (CAS # 111-40-0)

Phenol, 4,4'-(1-methylethylidene)bis- (CAS # 80-05-7)

Phenanthrene (CAS # 85-01-8)

Naphthalene (CAS # 91-20-3)

##### **Pennsylvania RTK Hazardous Substances**

Coal Tar Pitch (CAS # 65996-93-2)

Diethylenetriamine (CAS # 111-40-0)

Phenol, 4,4'-(1-methylethylidene)bis- (CAS # 80-05-7)

Phenanthrene (CAS # 85-01-8)

Naphthalene (CAS # 91-20-3)

**California Prop. 65:** WARNING: This product contains the following chemical(s) known to the State of California to cause cancer:

Benzo(b)fluoranthene (CAS # 205-99-2)

Benzo(a)pyrene (CAS # 50-32-8)

Dibenz(a,h)anthracene (CAS # 53-70-3)

Benz(a)anthracene (CAS # 56-55-3)

Naphthalene (CAS # 91-20-3)

Indeno(1,2,3-cd)pyrene (CAS # 193-39-5)

Chrysene (CAS # 218-01-9)

**California Prop. 65:** WARNING: This product contains the following chemical(s) known to the State of California to be a reproductive toxin:

None known.

## **International regulations**

**Chemical inventories** Europe inventory - All components are listed or exempted.  
Australia inventory (AICS) - All components are listed or exempted.  
Canada inventory - All components are listed or exempted.  
Japan inventory - Not on inventory.  
China inventory (IECSC) - All components are listed or exempted.  
Korea inventory - All components are listed or exempted.  
Philippines inventory (PICCS) - All components are listed or exempted.  
United States inventory (TSCA 8b) - All components are listed or exempted.

**Canada WHMIS  
Hazard Classification** Class D-2A: Very Toxic Material Causing Other Toxic Effects  
Class D-2B: Toxic Material Causing Other Toxic Effects  
Class E: Corrosive Material

**Restriction of  
Hazardous  
Substances (RoHS)** This product is RoHS compliant and does not contain lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB) or polybrominated diphenyl ethers (PBDE) at levels greater than the maximum concentration values specified in Directive 2011/65/EU (dated 8 June, 2011) of the European Parliament and of the Council of the European Union.

## **16. Other information**

**Hazardous Material  
Information System III  
(U.S.A.)** Health: 3  
Flammability: 1  
Physical hazards: 0  
Personal Protection: X

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. HMIS® ratings are to be used with a fully implemented HMIS® program.

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### **Notice to reader**

The information provided herein was believed to be accurate at the time of preparation or prepared from sources believed to be reliable, but it is the responsibility of the user to investigate and understand other pertinent sources of information, to comply with all laws and procedures applicable to the safe handling and use of the product and to determine the suitability of the product for its intended use. All products supplied are subject to current terms and conditions of sale. NO WARRANTY, EXPRESSED OR IMPLIED, IS PROVIDED CONCERNING THE PRODUCT OR THE MERCHANTABILITY OR FITNESS THEREOF FOR ANY PURPOSE OR CONCERNING THE ACCURACY OF ANY INFORMATION, except that the product shall conform to specifications. Nothing contained herein constitutes an offer for the sale of any product.