

This document contains 2 separate Safety Data Sheets, 1 for each component in the JointCrete™ Primer Kit

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# Safety Data Sheet

## 1. Product and company identification

**Product Name** JointCrete™ Primer – Part A

**Internal Code(s)** EJN-JOINTCRETE PRIMER PART A

**Product Type** Epoxy Resin

**Product Use** Bonding agent for concrete

**Supplier** Nystrom, Inc  
9300 73<sup>rd</sup> Avenue North  
Minneapolis, MN 55428  
1.800.547.2635  
[www.Nystrom.com](http://www.Nystrom.com)

**Revision Date** 027-AUGUST-2024

**Telephone** CHEMTREC +001 703 5273887 (Outside US)  
CHEMTREC 1-800-424-9300 (Inside US)

## 2. Hazards identification

Skin Corrosion / Irritation	2	Skin Irritation
Serious Eye Damage / Eye Irritation	2A	Eye Irritation - Reversible effects on the eye.
Skin Sensitization	1	Skin Sensitizer
Germ Cell Mutagenicity	2	May induce heritable mutations in germ cells
Carcinogenicity	2	Suspected human carcinogen
Specific Target Organ Toxicity (Single Exposure)	3	Transient target organ effects - Respiratory Tract Irritation via inhalation
Specific Target Organ Toxicity (Repeated Exposure)	1	Potential to produce significant toxicity in humans following repeated exposure - Central Nervous System (CNS) via inhalation; Skin via skin contact

**Product Form** Liquid

**OSHA/HCS status** This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Hazard Category Classification:**

GHS Pictogram(s):



Signal Word: **DANGER**

<b>Hazard Statement:</b>	H315	Causes skin irritation.
	H319	Causes serious eye irritation.
	H317	May cause an allergic skin reaction.
	H341	Suspected of causing genetic defects.
	H351	Suspected of causing cancer.
	H335	May cause respiratory irritation.
	H372	Causes damage to organs (central nervous system (CNS), skin) through prolonged or repeated exposure.

**Precautionary Statements:**

<b>Prevention:</b>	P264 + P265	Wash hands and exposed skin thoroughly after handling. Do not touch eyes.
	P280	Wear protective gloves / protective clothing / eye protection / face protection.
	P260	Do not breathe mist / vapors / spray.
	P272	Contaminated work clothing should not be allowed out of the workplace.
	P203	Obtain, read and follow all safety instructions before use.
	P271	Use only outdoors or with adequate ventilation.
	P270	Do not eat, drink, or smoke when using this product.

<b>Response:</b>	P318	IF exposed or concerned, get medical advice.
	P302 + P352	<b>IF ON SKIN:</b> Wash with plenty of water and soap.
	P333 + P317	If skin irritation or rash occurs: Get medical help.
	P362 + P364	Take off contaminated clothing and wash it 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.
	P337 + P317	If eye irritation persists: Get medical help.
	P304 + P340	<b>IF INHALED:</b> Remove person to fresh air and keep comfortable for breathing.
	P319	Get medical help if you feel unwell.

<b>Storage:</b>	P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
	P405	Store locked up.

<b>Disposal:</b>	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>
Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers	25085-99-8	<b>65 – 80%</b>

9-Octadecenoic acid, 12-(2-oxiranylmethoxy)-, 1,2,3propanetriyl ester, homopolymer	74398-71-3	15 – 25%
Oxirane, 2-(butoxymethyl)-	2426-08-6	5 – 10%

## 4. First aid measures

<b>Eye contact</b>	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.
<b>Skin contact</b>	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.
<b>Inhalation</b>	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.
<b>Ingestion</b>	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. Get medical attention if adverse health effects persist or are severe. 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.
<b>Notes to physician</b>	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

## 5. Fire-fighting measures

<b>Flammability properties of the product</b>	<b>Flash Point:</b> >93°C (>199.4°F)
	<b>Flash Point Method Used:</b> Pensky-Martens Closed Cup (ASTM D-93)
	<b>Flammable Limits in Air (Lower - % by volume):</b> Not determined
	<b>Flammable Limits in Air (Upper - % by volume):</b> Not determined

### Extinguishing media

<b>Suitable</b>	Low Pressure Water Spray, Foam, Carbon Dioxide, Dry Chemical
<b>Not suitable</b>	High-Pressure Water Spray (may spread burning material).
<b>Special exposure hazards</b>	Wear self-contained breathing apparatus (SCBA) to protect from hazardous combustion products. Be aware of the explosive rupture potential of this product under fire and/or excessive heating conditions.
<b>Hazardous combustion products</b>	Carbon Monoxide, Carbon Dioxide, Hydrocarbons, and other Aliphatic Fragments of uncertain composition.

**Unusual Fire and Explosion Hazards**

The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.

**Special protective equipment & instructions for firefighters**

Fire-fighters should wear appropriate protective equipment including self-contained breathing apparatus (SCBA). Fight fire from safe distance and protected location. Avoid direct personal contact with liquid. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. Prevent fire-fighting water from entering environment.

**6. Accidental release measures**

**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
25085-99-8	Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers	N.E.	N.E.	N.E.	N.E.	N.E.
74398-71-3	9-Octadecenoic acid, 12-(2-oxiranylmethoxy)-, 1,2,3-propanetriyl ester, homopolymer	N.E.	N.E.	N.E.	N.E.	N.E.
2426-08-6	Oxirane, 2-(butoxymethyl)-	3 ppm	N.E.	270 mg/m <sup>3</sup> 50 ppm TWA	N.E.	30 mg/m <sup>3</sup> 5.6 ppm Ceiling

**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.

<b>Engineering measures</b>	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.
<b>Hygiene measures</b>	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.
<b>Respiratory</b>	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.
<b>Eyes</b>	Safety glasses with side-shields or chemical splash goggles are recommended.
<b>Skin</b>	Impervious gloves should be used. Butyl rubber gloves are recommended. 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>	Straw-colored
<b>pH</b>	Not determined
<b>Boiling point</b>	> 117.8°C (> 244°F)
<b>Freezing Point</b>	Not determined
<b>Specific gravity</b>	1.10
<b>Odor threshold</b>	Slight sweet-smelling odor
<b>Solubility in water</b>	Negligible
<b>Evaporation rate</b>	Not Determined
<b>Vapor density</b>	Not Determined

## 10. Stability and reactivity

<b>Stability</b>	The product is stable under normal conditions of storage and use.
<b>Conditions to avoid</b>	Excessive heat. Sparks, open flames, and other sources of ignition.
<b>Materials to avoid</b>	Reactive or incompatible with the following materials: Strong oxidizers.
<b>Other hazards</b>	Curing reaction may release significant heat when mixed with Part B
<b>Hazardous decomposition products</b>	Decomposition products upon combustion may include the following materials: Carbon Monoxide, Carbon Dioxide.

## 11. Toxicological information

### Acute toxicity

LD50 Oral	Rat	> 6,189 mg/kg (Acute Toxicity Estimate)
LD50 Dermal	Rabbit	> 2,016 mg/kg (ATE)
LC50 Inhalation	Rat	> 20 mg/L vapors

### **Skin Irritation**

Rabbit, OECD Test Guideline 404, 24 Hrs.: Moderately irritating

### **Eye Irritation**

Rabbit, Moderately irritating

### **Sensitization**

Causes sensitization.

Skin sensitization (local lymph node assay (LLNA)):: positive (mouse, OECD Test Guideline 429)

### **Mutagenicity**

Suspected of causing genetic defects.

### **Carcinogenicity Classification**

IARC	Not listed
NTP	Not listed
OSHA	Not regulated as a carcinogen EU
	Not classified

## **12. Ecological information**

### **Environmental effects**

No known significant effects or critical hazards.

### Other adverse effects

No known significant effects or critical hazards.

## **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**

<b>Regulatory information</b>	<b>UN/NA number</b>	<b>Proper shipping name</b>	<b>Classes/*PG</b>	<b>Reportable Quantity (RQ)</b>
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<b>CFR</b>	N/A	Not dangerous goods	N/A	N/A.
<b>TDG</b>	N/A	Not dangerous goods	N/A	N/A.
<b>IMO/IMDG</b>	N/A	Not dangerous goods	N/A	N/A.
<b>IATA</b>	N/A	Not dangerous goods	N/A	N/A.

\*PG : Packing group

## 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.

**SARA Title III, Section 311/312 Classification** Acute (Immediate) Health Hazard

### U.S. Federal regulations

#### **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.

No chemicals present above the *de minimus* limit.

**SARA Section 302 Extremely Hazardous Substances** None required.

### State regulations

#### **Massachusetts RTK Substances**

None

**New Jersey RTK Hazardous Substances** None

**Pennsylvania RTK Hazardous Substances** None

**California Prop. 65:** WARNING: This product contains less than 0.1% of the following chemical(s) known to the State of California to cause cancer:

Epichlorohydrin (CAS # 106-89-8); <0.1%

**California Prop. 65:** WARNING: This product contains less than 0.1% of the following chemical(s) known to the State of California to be a reproductive toxin:

Bisphenol A (CAS # 80-05-7); <0.8%; Female  
Epichlorohydrin (CAS # 106-89-8); <0.1%; Male

### International regulations Chemical inventories

United States inventory (TSCA 8b) - All components are listed or exempted.

## 16. Other information

### Hazardous Material Information System III (U.S.A.)

Health: 2  
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.

<b>Prepared by</b>	Nystrom, Inc.
<b>Date of issue</b>	July 5, 2024
<b>Date of printing</b>	July 5, 2024

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# Safety Data Sheet

## 1. Product and company identification

<b>Product Name</b>	<b>JointCrete™ Primer – Part B</b>
<b>Internal Code(s)</b>	EJN-JOINTCRETE PRIMER PART B
<b>Product Type</b>	Curing Agent for Epoxy Resin
<b>Product Use</b>	Bonding agent for concrete
<b>Supplier</b>	Nystrom, Inc 9300 73 <sup>rd</sup> Avenue North Minneapolis, MN 55428 1.800.547.2635 <a href="http://www.Nystrom.com">www.Nystrom.com</a>
<b>Revision Date</b>	027-AUGUST-2024
<b>Telephone</b>	<b>CHEMTREC +001 703 5273887 (Outside US)</b> <b>CHEMTREC 1-800-424-9300 (Inside US)</b>

## 2. Hazards identification

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

**Hazard Category Classification:**

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

**Hazard Statement:**

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 dust / mist / vapors / spray.
P271	Use only outdoors or with adequate ventilation.
P264 + P265	Wash hands and exposed skin thoroughly after handling. Do not touch eyes.
P280	Wear protective gloves / protective clothing / eye protection / face protection.
P272	Contaminated work clothing should not be allowed out of the workplace.
P203	Obtain, read and follow all safety instructions before use.
P273	Avoid release to the environment.

**Response:**

P304 + P340	<b>IF INHALED:</b> Remove person to fresh air and keep comfortable for breathing.
P316	Get emergency medical help immediately.
P301 + P330 + P331	<b>IF SWALLOWED:</b> Rinse mouth. Do NOT induce vomiting.
P302 + P361 + P354	<b>IF ON SKIN:</b> Take off immediately all contaminated clothing. Immediately rinse with water for several minutes.
P302 + P352	<b>IF ON SKIN:</b> Wash with plenty of water and soap.
P333 + P317	If skin irritation or rash occurs: Get medical help.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P305 + P354 + P338	<b>IF IN EYES:</b> Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P317	Get medical help.
P318	IF exposed or concerned, get medical advice.
P319	Get medical help if you feel unwell.
P391	Collect spillage.
P405	Store locked up.

**Storage:****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

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

### 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.

**5. Fire-fighting measures**

**Flash Point:** >93°C (>200°F)  
**Flash Point Method Used:** Pensky-Martens Closed Cup (ASTM D-93)  
**Flammability properties of the product**  
**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  
High-Pressure Water Spray (may spread burning material).

**Not suitable**

**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.

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

**Hazardous combustion products**

**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.

**6. Accidental release measures**

**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. Curing reaction may release significant heat when mixed with Part A.
<b>Other hazards</b>	
<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>Acute toxicity</b>	LD50 Oral	Rat	2200 mg/kg (Acute Toxicity Estimate)
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LD50 Dermal Rabbit 2127 mg/kg (Acute Toxicity Estimate) LC50  
Inhalation Rat 1.36 mg/L (aerosol/mist); (ATE)

**Skin Irritation** Prolonged exposure may cause destruction of skin tissue.  
Severe skin irritation.

**Eye Irritation** Severe eye irritation.

**Sensitization** May cause sensitization by skin contact.

**Mutagenicity** There is evidence of mutagenic potential.

**Reproductive Toxicity** May damage fertility or the unborn child.

**Carcinogenicity Classification**

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

<b>Regulatory information</b>	<b>UN/NA number</b>	<b>Proper shipping name</b>	<b>Classes/*PG</b>	<b>Reportable Quantity (RQ)</b>
<b>CFR</b>	UN3267	Corrosive Liquid, Basic, Organic, N.O.S. (Diethylenetriamine, para-Nonylphenol)	8, PGIII	292 Lbs.**
<b>TDG</b>	UN3267	Corrosive Liquid, Basic, Organic, N.O.S. (Diethylenetriamine, para-Nonylphenol) Marine Pollutant	8, PGIII	292 Lbs.**
<b>IMO/IMDG</b>	UN3267	Corrosive Liquid, Basic, Organic, N.O.S. (Diethylenetriamine, para-Nonylphenol) Marine Pollutant	8, PGIII	292 Lbs.**
<b>IATA</b>	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 SARA Title III, Section 311/312 Classification regulations**

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

## 16. Other information

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

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

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