



# PCN NATIVE PAR SOLUTION UNLABELED 1000 NG/ML IN NONANE

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations  
Issue date: 11/17/2014 Revision date: 1/28/2019 Supersedes: 11/17/2014 Version: 2.0

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Product name : PCN NATIVE PAR SOLUTION UNLABELED 1000 NG/ML IN NONANE  
Product code : ECN-5497

#### 1.2. Recommended use and restrictions on use

No additional information available

#### 1.3. Supplier

Cambridge Isotope Laboratories, Inc.  
50 Frontage Rd  
01810  
ANDOVER, MA, 01810  
USA  
T 1-800-322-1174  
[cilsales@isotope.com](mailto:cilsales@isotope.com) - [www.isotope.com](http://www.isotope.com)

#### 1.4. Emergency telephone number

Emergency number : 1-703-741-5970  
Chemtrec 1-800-424-9300 24 hours

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS US classification

Flammable liquids Category 3	H226	Flammable liquid and vapor
Acute toxicity (inhalation:dust,mist) Category 4	H332	Harmful if inhaled
Skin corrosion/irritation Category 2	H315	Causes skin irritation
Serious eye damage/eye irritation Category 2A	H319	Causes serious eye irritation
Specific target organ toxicity – Single exposure, Category 3, Narcosis	H336	May cause drowsiness or dizziness
Aspiration hazard Category 1	H304	May be fatal if swallowed and enters airways

Full text of H statements : see section 16

#### 2.2. GHS Label elements, including precautionary statements

##### GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) :

Danger

Hazard statements (GHS US) :

H226 - Flammable liquid and vapor  
H304 - May be fatal if swallowed and enters airways  
H315 - Causes skin irritation  
H319 - Causes serious eye irritation  
H332 - Harmful if inhaled  
H336 - May cause drowsiness or dizziness

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Precautionary statements (GHS US) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. sparks, open flames, hot surfaces, heat  
P233 - Keep container tightly closed.  
P240 - Ground/Bond container and receiving equipment.  
P241 - Use explosion-proof ventilating, lighting, electrical equipment.  
P242 - Use only non-sparking tools.  
P243 - Take precautionary measures against static discharge.  
P261 - Avoid breathing vapors, spray, mist, gas, fume, dust.  
P264 - Wash Both hands thoroughly after handling.  
P271 - Use only outdoors or in a well-ventilated area.  
P280 - Wear protective gloves, protective clothing.  
P301+P310 - If swallowed: Immediately call a poison center or doctor.  
P302+P352 - If on skin: Wash with plenty of water.  
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P312 - Call a poison center or doctor if you feel unwell.  
P321 - Specific treatment (see Hazard pictograms (CLP) on this label).  
P331 - Do NOT induce vomiting.  
P332+P313 - If skin irritation occurs: Get medical advice/attention.  
P337+P313 - If eye irritation persists: Get medical advice/attention.  
P362 - Take off contaminated clothing and wash before reuse.  
P370+P378 - In case of fire: Use Alcohol resistant foam, Carbon dioxide, Dry chemical, Water spray to extinguish.  
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.  
P403+P235 - Store in a well-ventilated place. Keep cool.  
P405 - Store locked up.  
P501 - Dispose of contents/container to Comply with applicable regulations.

### 2.3. Other hazards which do not result in classification

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	GHS US classification
N-NONANE UNLABELED	CAS-No.: 111-84-2	99.99902	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H336 Asp. Tox. 1, H304
1,2,3,4-TETRACHLORONAPHTHALENE UNLABELED	CAS-No.: 20020-02-4 (Unlabeled)	0.00014	Acute Tox. 4 (Oral), H302 Eye Irrit. 2A, H319 Aquatic Chronic 4, H413

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Name	Product identifier	%	GHS US classification
1,2,3,5,7-PENTACN UNLABELED	CAS-No.: 53555-65-0	0.00014	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT RE 1, H372 STOT RE 2, H373 Aquatic Chronic 1, H410
1,2,3,4,6,7-HEXACN UNLABELED	CAS-No.: 103426-96-6	0.00014	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT RE 1, H372 STOT RE 2, H373 Aquatic Chronic 1, H410
1,2,3,5,6,8-HEXACN UNLABELED	CAS-No.: 103426-95-5 (Unlabeled)	0.00014	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT RE 1, H372 STOT RE 2, H373 Aquatic Chronic 1, H410
1,2,3,4,5,6,7-HEPTACN UNLABELED	CAS-No.: 58863-14-2	0.00014	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT RE 1, H372 STOT RE 2, H373 Aquatic Chronic 1, H410
1,2,3,5,6,7-HEXACN UNLABELED	CAS-No.: 103426-97-7 (Unlabeled)	0.00014	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 1, H370 STOT SE 2, H371 Aquatic Chronic 1, H410
OCTACHLORONAPHTHALENE UNLABELED	CAS-No.: 2234-13-1 (Unlabeled)	0.00014	Acute Tox. 4 (Oral), H302 Aquatic Chronic 4, H413

Full text of hazard classes and H-statements : see section 16

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

First-aid measures general	: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
First-aid measures after skin contact	: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Wash with plenty of soap and water. Get medical advice/attention. Specific treatment (see Hazard pictograms (CLP) on this label).
First-aid measures after eye contact	: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
First-aid measures after ingestion	: Immediately call a poison center or doctor/physician.

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### 4.2. Most important symptoms and effects (acute and delayed)

Potential Adverse human health effects and symptoms	: This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.
Symptoms/effects after inhalation	: Harmful if inhaled. May cause drowsiness or dizziness. Danger of serious damage to health by prolonged exposure through inhalation.
Symptoms/effects after skin contact	: Causes skin irritation.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: May be fatal if swallowed and enters airways.

### 4.3. Immediate medical attention and special treatment, if necessary

No additional information available

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide. Alcohol resistant foam.

### 5.2. Specific hazards arising from the chemical

Fire hazard	: Flammable liquid and vapor.
Hazardous decomposition products in case of fire	: Toxic fumes may be released.

### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions	: Do not enter fire area without proper protective equipment, including respiratory protection.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures : Wear personal protective equipment. Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid breathing fume, gas, mist, spray, vapors. Avoid contact with skin and eyes.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

For containment	: Dike and contain spill. Dispose as hazardous waste. Comply with local regulations for disposal.
Methods for cleaning up	: For large spills, confine the spill in a dike and charge it with wet sand or earth for subsequent safe disposal. Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal.
Other information	: Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13.

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Additional hazards when processed	: Handle empty containers with care because residual vapors are flammable.
Precautions for safe handling	: No open flames. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools. Use only outdoors or in a well-ventilated area. Avoid breathing dust, mist or spray.
Hygiene measures	: Wash Both hands thoroughly after handling.

#### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical equipment.
Storage conditions	: Store at room temperature away from light and moisture.
Incompatible materials	: Heat sources.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### PCN NATIVE PAR SOLUTION UNLABELED 1000 NG/ML IN NONANE

No additional information available

##### 1,2,3,4-TETRACHLORONAPHTHALENE UNLABELED (20020-02-4 (Unlabeled))

###### USA - ACGIH - Occupational Exposure Limits

ACGIH chemical category	No component of this product present at levels greater than or equal to 0.1% is identifiable as a carcinogen or potential carcinogen by ACGIH.
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##### 1,2,3,5,7-PENTACN UNLABELED (53555-65-0)

###### USA - ACGIH - Occupational Exposure Limits

ACGIH OEL TWA	0.5 mg/m <sup>3</sup> Skin
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###### USA - OSHA - Occupational Exposure Limits

OSHA PEL TWA [1]	0.5 mg/m <sup>3</sup> Skin
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##### 1,2,3,4,6,7-HEXACN UNLABELED (103426-96-6)

###### USA - OSHA - Occupational Exposure Limits

OSHA PEL TWA [1]	0.2 mg/m <sup>3</sup> Skin
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##### 1,2,3,5,6,8-HEXACN UNLABELED (103426-95-5 (Unlabeled))

No additional information available

##### N-NONANE UNLABELED (111-84-2)

###### USA - ACGIH - Occupational Exposure Limits

Local name	Nonane
ACGIH OEL TWA [ppm]	200 ppm USA. ACGIH Threshold Limit Values (TLV)
Remark (ACGIH)	CNS impair
ACGIH chemical category	No component of this product present at levels greater than or equal to 0.1% is identifiable as a carcinogen or potential carcinogen by ACGIH.

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<b>N-NONANE UNLABELED (111-84-2)</b>	
<b>USA - OSHA - Occupational Exposure Limits</b>	
OSHA PEL TWA [1]	1050 mg/m <sup>3</sup> USA. OSHA - Table Z-1 Limits for Air Contaminants - 1910.1000
OSHA PEL TWA [2]	200 ppm USA. OSHA - Table Z-1 Limits for Air Contaminants - 1910.1000
OSHA PEL C	1050 California permissible exposure limits for chemical contaminants.
OSHA PEL C [ppm]	200 ppm California permissible exposure limits for chemical contaminants.
<b>USA - NIOSH - Occupational Exposure Limits</b>	
NIOSH REL TWA	1050 mg/m <sup>3</sup> USA. NIOSH Recommended Exposure Limits
NIOSH REL TWA [ppm]	200 ppm USA. NIOSH Recommended Exposure Limits
Remark (NIOSH)	Central Nervous System impairment
<b>1,2,3,4,5,6,7-HEPTACN UNLABELED (58863-14-2)</b>	
No additional information available	
<b>1,2,3,5,6,7-HEXACN UNLABELED (103426-97-7 (Unlabeled))</b>	
No additional information available	
<b>OCTACHLORONAPHTHALENE UNLABELED (2234-13-1 (Unlabeled))</b>	
<b>USA - ACGIH - Occupational Exposure Limits</b>	
ACGIH chemical category	No component of this product present at levels greater than or equal to 0.1% is identifiable as a carcinogen or potential carcinogen by ACGIH.

### 8.2. Appropriate engineering controls

No additional information available

### 8.3. Individual protection measures/Personal protective equipment

#### Personal protective equipment:

Gloves. Protective goggles. Protective clothing. Self-contained breathing apparatus.

<b>Hand protection:</b>
Wear suitable protective clothing and gloves
<b>Eye protection:</b>
Wear safety glasses with side shields (or goggles) and a face shield.
<b>Skin and body protection:</b>
Wear suitable protective clothing
<b>Respiratory protection:</b>
Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Wear respiratory protection.

#### Personal protective equipment symbol(s):



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### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Liquid.
Color	: Colorless
Odor	: No data available
Odor threshold	: No data available
pH	: No data available
Melting point	: Not applicable
Freezing point	: -53 °C (- 63 °F) - lit
Boiling point	: 151 °C (304 °F) - lit
Flash point	: 31 °C (87.8 °F) - closed cup
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Flammable liquid and vapor.
Vapor pressure	: 5.69 hPa (4.27 mmHg) at 25 °C (77 °F)
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Density	: 0.718 g/ml at 25 °C (77 °F)
Molecular mass	: 128.3 g/mol
Solubility	: Water: 0.0002 %
Partition coefficient n-octanol/water (Log Pow)	: 5.65
Auto-ignition temperature	: 205 °C (401 °F)
Decomposition temperature	: No data available
Viscosity, kinematic	: ≤ 1.008 mm <sup>2</sup> /s at 20 °C (68 °F)
Viscosity, dynamic	: No data available
Explosion limits	: 0.87 – 2.9 % (V)
Explosive properties	: No data available
Oxidizing properties	: No data available

#### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Flammable liquid and vapor. Vapors may form flammable mixture with air.

#### 10.2. Chemical stability

See storage and expiration date on CoA.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

#### 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

Carbon oxides (CO, CO<sub>2</sub>).

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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified  
Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Harmful if inhaled.

PCN NATIVE PAR SOLUTION UNLABELED 1000 NG/ML IN NONANE	
LC50 Inhalation - Rat	23760 mg/m <sup>3</sup> male - 4 h
ATE US (dust, mist)	1.5 mg/l/4h
Additional data	Skin corrosion/irritation, Dermal, rat: Result: Skin Irritation (Draize Test) S. Typhimurium Result negative

1,2,3,4-TETRACHLORONAPHTHALENE UNLABELED (20020-02-4 (Unlabeled))	
ATE US (oral)	500 mg/kg body weight

1,2,3,5,7-PENTACN UNLABELED (53555-65-0)	
ATE US (oral)	500 mg/kg body weight

1,2,3,4,6,7-HEXACN UNLABELED (103426-96-6)	
ATE US (oral)	500 mg/kg body weight

1,2,3,5,6,8-HEXACN UNLABELED (103426-95-5 (Unlabeled))	
ATE US (oral)	500 mg/kg body weight

N-NONANE UNLABELED (111-84-2)	
LC50 Inhalation - Rat	23760 mg/m <sup>3</sup> male - 4 h
ATE US (gases)	4500 ppmV/4h
ATE US (vapors)	11 mg/l/4h
ATE US (dust, mist)	1.5 mg/l/4h
Skin corrosion/irritation, Dermal, rat	Result: Skin Irritation (Draize Test)
Additional information	: S. Typhimurium Result: negative

1,2,3,4,5,6,7-HEPTACN UNLABELED (58863-14-2)	
ATE US (oral)	500 mg/kg body weight

1,2,3,5,6,7-HEXACN UNLABELED (103426-97-7 (Unlabeled))	
ATE US (oral)	500 mg/kg body weight

OCTACHLORONAPHTHALENE UNLABELED (2234-13-1 (Unlabeled))	
ATE US (oral)	500 mg/kg body weight

Skin corrosion/irritation : Causes skin irritation.  
Serious eye damage/irritation : Causes serious eye irritation.  
Respiratory or skin sensitization : Not classified  
Germ cell mutagenicity : Not classified  
Carcinogenicity : Not classified  
Reproductive toxicity : Not classified  
STOT-single exposure : May cause drowsiness or dizziness.



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<b>N-NONANE UNLABELED (111-84-2)</b>	
STOT-single exposure	May cause drowsiness or dizziness.
<b>1,2,3,5,6,7-HEXACN UNLABELED (103426-97-7 (Unlabeled))</b>	
STOT-single exposure	Causes damage to organs (liver, Skin) (Dermal, Inhalation, oral). May cause damage to organs (liver, Skin) (Dermal, Inhalation, oral).
STOT-repeated exposure	: Not classified
<b>1,2,3,5,7-PENTACN UNLABELED (53555-65-0)</b>	
STOT-repeated exposure	Causes damage to organs (liver, Skin) through prolonged or repeated exposure (Dermal, Inhalation, oral). May cause damage to organs (liver, Skin) through prolonged or repeated exposure (Dermal, oral, Inhalation).
<b>1,2,3,4,6,7-HEXACN UNLABELED (103426-96-6)</b>	
STOT-repeated exposure	Causes damage to organs (liver, Skin) through prolonged or repeated exposure (Dermal, Inhalation, oral). May cause damage to organs (Skin, liver) through prolonged or repeated exposure (Dermal, Inhalation, oral).
<b>1,2,3,5,6,8-HEXACN UNLABELED (103426-95-5 (Unlabeled))</b>	
STOT-repeated exposure	Causes damage to organs (liver, Skin) through prolonged or repeated exposure (Dermal, Inhalation, oral). May cause damage to organs (liver, Skin) through prolonged or repeated exposure (Dermal, Inhalation, oral).
<b>1,2,3,4,5,6,7-HEPTACN UNLABELED (58863-14-2)</b>	
STOT-repeated exposure	Causes damage to organs (liver, Skin) through prolonged or repeated exposure (Dermal, Inhalation, oral). May cause damage to organs (liver, Skin) through prolonged or repeated exposure (Dermal, Inhalation, oral).
Aspiration hazard	: May be fatal if swallowed and enters airways.
Viscosity, kinematic	: ≤ 1.008 mm <sup>2</sup> /s at 20 °C (68 °F)
<b>N-NONANE UNLABELED (111-84-2)</b>	
Viscosity, kinematic	≤ 1.008 mm <sup>2</sup> /s at 20 °C (68 °F)
Potential Adverse human health effects and symptoms	: This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.
Symptoms/effects after inhalation	: Harmful if inhaled. May cause drowsiness or dizziness. Danger of serious damage to health by prolonged exposure through inhalation.
Symptoms/effects after skin contact	: Causes skin irritation.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: May be fatal if swallowed and enters airways.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

<b>OCTACHLORONAPHTHALENE UNLABELED (2234-13-1 (Unlabeled))</b>	
LC50 - Fish [1]	> 600 mg/l <i>Lepomis macrochirus</i> (Bluegill) - 96 h
EC50 - Crustacea [1]	> 530 mg/l <i>Daphnia magna</i> (Water flea) - 48 h
ErC50 algae	> 500 mg/l <i>Pseudokirchneriella subcapitata</i> (green algae) - 72 h
NOEC (chronic)	560 mg/l <i>Cyprinodon variegatus</i> (sheepshead minnow) - 96 h

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### 12.2. Persistence and degradability

#### 1,2,3,4,6,7-HEXACN UNLABELED (103426-96-6)

Persistence and degradability	No data available.
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#### OCTACHLORONAPHTHALENE UNLABELED (2234-13-1 (Unlabeled))

Persistence and degradability	Not available.
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### 12.3. Bioaccumulative potential

#### PCN NATIVE PAR SOLUTION UNLABELED 1000 NG/ML IN NONANE

Partition coefficient n-octanol/water (Log Pow)	5.65
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Bioaccumulative potential	Indication of bioaccumulation.
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#### 1,2,3,4-TETRACHLORONAPHTHALENE UNLABELED (20020-02-4 (Unlabeled))

Partition coefficient n-octanol/water (Log Pow)	5.314
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#### 1,2,3,5,7-PENTACN UNLABELED (53555-65-0)

Partition coefficient n-octanol/water (Log Pow)	6.88
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#### 1,2,3,4,6,7-HEXACN UNLABELED (103426-96-6)

Partition coefficient n-octanol/water (Log Pow)	6.88
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Bioaccumulative potential	No data available.
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#### 1,2,3,5,6,8-HEXACN UNLABELED (103426-95-5 (Unlabeled))

Partition coefficient n-octanol/water (Log Pow)	6.88
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#### N-NONANE UNLABELED (111-84-2)

Partition coefficient n-octanol/water (Log Pow)	5.65
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Bioaccumulative potential	Indication of bioaccumulation.
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#### 1,2,3,4,5,6,7-HEPTACN UNLABELED (58863-14-2)

Partition coefficient n-octanol/water (Log Pow)	6.88
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#### 1,2,3,5,6,7-HEXACN UNLABELED (103426-97-7 (Unlabeled))

Partition coefficient n-octanol/water (Log Pow)	6.88
---	------

#### OCTACHLORONAPHTHALENE UNLABELED (2234-13-1 (Unlabeled))

Partition coefficient n-octanol/water (Log Pow)	6.42
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Bioaccumulative potential	Not available.
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### 12.4. Mobility in soil

#### 1,2,3,4,6,7-HEXACN UNLABELED (103426-96-6)

Ecology - soil	No data available.
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#### OCTACHLORONAPHTHALENE UNLABELED (2234-13-1 (Unlabeled))

Ecology - soil	Not available.
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### 12.5. Other adverse effects

Other adverse effects : Disposal must be done according to official regulations.

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### SECTION 13: Disposal considerations

#### 13.1. Disposal methods

Regional legislation (waste)	:	Waste materials should be disposed of under conditions which meet Federal, State, and local environmental control regulations.
Product/Packaging disposal recommendations	:	Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.
Ecology - waste materials	:	Dispose of as unused product.

### SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

#### 14.1. UN number

DOT NA No	:	UN1920
UN-No. (TDG)	:	UN1920
UN-No. (IMDG)	:	1920
UN-No. (IATA)	:	1920

#### 14.2. UN proper shipping name

Proper Shipping Name (DOT)	:	Nonanes
Proper Shipping Name (TDG)	:	NONANES
Proper Shipping Name (IMDG)	:	NONANES
Proper Shipping Name (IATA)	:	Nonanes

#### 14.3. Transport hazard class(es)

##### DOT

Transport hazard class(es) (DOT)	:	3
Hazard labels (DOT)	:	3



##### TDG

Transport hazard class(es) (TDG)	:	3
Hazard labels (TDG)	:	3



##### IMDG

Transport hazard class(es) (IMDG)	:	3
Hazard labels (IMDG)	:	3



##### IATA

Transport hazard class(es) (IATA)	:	3
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Hazard labels (IATA) : 3



### 14.4. Packing group

Packing group (DOT) : III  
Packing group (TDG) : III  
Packing group (IMDG) : III  
Packing group (IATA) : III

### 14.5. Environmental hazards

Marine pollutant : Yes (IMDG only)



Other information : No supplementary information available.

### 14.6. Special precautions for user

#### DOT

UN-No. (DOT) : UN1920  
DOT Special Provisions (49 CFR 172.102) : B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable.  
IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).  
T2 - 1.5 178.274(d)(2) Normal..... 178.275(d)(3)  
TP2 - a. The maximum degree of filling must not exceed the degree of filling determined by the following: (image) Where: tr is the maximum mean bulk temperature during transport, tf is the temperature in degrees celsius of the liquid during filling, and a is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filling (tf) and the maximum mean bulk temperature during transportation (tr) both in degrees celsius. b. For liquids transported under ambient conditions may be calculated using the formula: (image) Where: d15 and d50 are the densities (in units of mass per unit volume) of the liquid at 15 C (59 F) and 50 C (122 F), respectively.  
DOT Packaging Exceptions (49 CFR 173.xxx) : 150  
DOT Packaging Non Bulk (49 CFR 173.xxx) : 203  
DOT Packaging Bulk (49 CFR 173.xxx) : 242  
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 60 L  
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 220 L  
DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.

#### TDG

UN-No. (TDG) : UN1920  
Explosive Limit and Limited Quantity Index : 5 L  
Excepted quantities (TDG) : E1

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Passenger Carrying Road Vehicle or Passenger : 60 L  
Carrying Railway Vehicle Index  
Emergency Response Guide (ERG) Number : 128

### IMDG

Limited quantities (IMDG) : 5 L  
Excepted quantities (IMDG) : E1  
Packing instructions (IMDG) : P001, LP01  
IBC packing instructions (IMDG) : IBC03  
Tank instructions (IMDG) : T2  
Tank special provisions (IMDG) : TP1  
EmS-No. (Fire) : F-E - FIRE SCHEDULE Echo - NON-WATER-REACTIVE FLAMMABLE LIQUIDS  
EmS-No. (Spillage) : S-E - SPILLAGE SCHEDULE Echo - FLAMMABLE LIQUIDS, FLOATING ON WATER  
Stowage category (IMDG) : A  
Flash point (IMDG) : '  
Properties and observations (IMDG) : Colourless liquids. Explosive limits: 0.8% to 2.9% normal-NONANE: flashpoint 31°C c.c.  
Immiscible with water. Irritating to skin, eyes and mucous membranes.  
MFAG-No : 128

### IATA

PCA Excepted quantities (IATA) : E1  
PCA Limited quantities (IATA) : Y344  
PCA limited quantity max net quantity (IATA) : 10L  
PCA packing instructions (IATA) : 355  
PCA max net quantity (IATA) : 60L  
CAO packing instructions (IATA) : 366  
CAO max net quantity (IATA) : 220L  
ERG code (IATA) : 3L

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

PCN NATIVE PAR SOLUTION UNLABELED 1000 NG/ML IN NONANE	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

Name	CAS-No.	Listing	Commercial status	Flags
1,2,3,4-TETRACHLORONAPHTHALENE UNLABELED	20020-02-4 (Unlabeled)	Not present	-	
1,2,3,5,7-PENTACN UNLABELED	53555-65-0	Not present	-	
1,2,3,4,6,7-HEXACN UNLABELED	103426-96-6	Not present	-	
1,2,3,5,6,8-HEXACN UNLABELED	103426-95-5 (Unlabeled)	Not present	-	
N-NONANE UNLABELED	111-84-2	Present	Active	T
1,2,3,4,5,6,7-HEPTACN UNLABELED	58863-14-2	Not present	-	

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Name	CAS-No.	Listing	Commercial status	Flags
1,2,3,5,6,7-HEXACN UNLABELED	103426-97-7 (Unlabeled)	Not present	-	
OCTACHLORONAPHTHALENE UNLABELED	2234-13-1 (Unlabeled)	Not present	-	

### 1,2,3,4-TETRACHLORONAPHTHALENE UNLABELED (20020-02-4 (Unlabeled))

SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard

### 1,2,3,5,7-PENTACN UNLABELED (53555-65-0)

SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.
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### 1,2,3,4,6,7-HEXACN UNLABELED (103426-96-6)

SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.
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### 1,2,3,5,6,8-HEXACN UNLABELED (103426-95-5 (Unlabeled))

SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.
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### N-NONANE UNLABELED (111-84-2)

SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard

### 1,2,3,4,5,6,7-HEPTACN UNLABELED (58863-14-2)

SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.
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### 1,2,3,5,6,7-HEXACN UNLABELED (103426-97-7 (Unlabeled))

SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard

### OCTACHLORONAPHTHALENE UNLABELED (2234-13-1 (Unlabeled))

SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard
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### 15.2. International regulations

#### CANADA

##### PCN NATIVE PAR SOLUTION UNLABELED 1000 NG/ML IN NONANE

Listed on the Canadian DSL (Domestic Substances List)

##### 1,2,3,5,7-PENTACN UNLABELED (53555-65-0)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

##### 1,2,3,4,6,7-HEXACN UNLABELED (103426-96-6)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

##### N-NONANE UNLABELED (111-84-2)

Listed on the Canadian DSL (Domestic Substances List)

##### 1,2,3,4,5,6,7-HEPTACN UNLABELED (58863-14-2)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

#### EU-Regulations

No additional information available

#### National regulations

No additional information available

### 15.3. US State regulations

##### PCN NATIVE PAR SOLUTION UNLABELED 1000 NG/ML IN NONANE

State or local regulations

U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - Massachusetts - Right To Know List  
U.S. - Pennsylvania - RTK (Right to Know) List

#### Component

#### State or local regulations

N-NONANE UNLABELED(111-84-2)

U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Massachusetts - Right To Know List; U.S. - Pennsylvania - RTK (Right to Know) List

## SECTION 16: Other information

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Revision date : 01/28/2019

Other information : This product is not radioactive. The data given for this product are those of the corresponding unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled compounds are generally not available, but are assumed to be similar or identical to the corresponding unlabeled compound.

#### Full text of H-phrases

H226	Flammable liquid and vapor
H302	Harmful if swallowed

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Full text of H-phrases	
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H319	Causes serious eye irritation
H332	Harmful if inhaled
H336	May cause drowsiness or dizziness
H370	Causes damage to organs
H371	May cause damage to organs
H372	Causes damage to organs through prolonged or repeated exposure
H373	May cause damage to organs through prolonged or repeated exposure
H410	Very toxic to aquatic life with long lasting effects
H413	May cause long lasting harmful effects to aquatic life

Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.