

## MONO-OCTA PCN NATIVE PAR SOLUTION UNLABELED 2000 NG/ML IN NONANE

### Novachem Pty Ltd

Chemwatch Hazard Alert Code: 3

Version No: 1.1

Safety Data Sheet according to Work Health and Safety Regulations (Hazardous Chemicals) 2023 and ADG requirements

Initial Date: 26/11/2025

Revision Date: 26/11/2025

Print Date: 26/11/2025

S.GHS.AUS.EN

### SECTION 1 Identification of the substance / mixture and of the company / undertaking

#### Product Identifier

Product name	MONO-OCTA PCN NATIVE PAR SOLUTION UNLABELED 2000 NG/ML IN NONANE
Synonyms	Not Available
Proper shipping name	NONANES
Other means of identification	ECN-5580

#### Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	For professional use only
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#### Details of the manufacturer or importer of the safety data sheet

Registered company name	Novachem Pty Ltd	Novachem Pty Ltd
Address	25 Crissane Road, Heidelberg West Victoria 3081 Australia	25 Crissane Road, Heidelberg West Victoria 3081 Australia
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Email	novachem@novachem.com.au	novachem@novachem.com.au

#### Emergency telephone number

Association / Organisation	Victorian Poisons Information Centre	Victorian Poisons Information Centre
Emergency telephone number(s)	13 11 26	13 11 26
Other emergency telephone number(s)	Not Available	Not Available

### SECTION 2 Hazards identification

#### Classification of the substance or mixture

Poisons Schedule	Not Applicable
Classification [1]	Flammable Liquids Category 3, Aspiration Hazard Category 1, Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 2A, Acute Toxicity (Inhalation) Category 4, Specific Target Organ Toxicity - Single Exposure (Respiratory Tract Irritation) Category 3, Specific Target Organ Toxicity - Single Exposure (Narcotic Effects) Category 3, Specific Target Organ Toxicity - Repeated Exposure Category 2, Hazardous to the Aquatic Environment Long-Term Hazard Category 1
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI

#### Label elements

Hazard pictogram(s)	   
Signal word	Danger

#### Hazard statement(s)

## MONO-OCTA PCN NATIVE PAR SOLUTION UNLABLED 2000 NG/ML IN NONANE

<b>H226</b>	Flammable liquid and vapour.
<b>H304</b>	May be fatal if swallowed and enters airways.
<b>H315</b>	Causes skin irritation.
<b>H319</b>	Causes serious eye irritation.
<b>H332</b>	Harmful if inhaled.
<b>H335</b>	May cause respiratory irritation.
<b>H336</b>	May cause drowsiness or dizziness.
<b>H373</b>	May cause damage to organs through prolonged or repeated exposure.
<b>H410</b>	Very toxic to aquatic life with long lasting effects.

**Precautionary statement(s) Prevention**

<b>P210</b>	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
<b>P260</b>	Do not breathe mist/vapours/spray.
<b>P271</b>	Use only outdoors or in a well-ventilated area.
<b>P240</b>	Ground and bond container and receiving equipment.

**Precautionary statement(s) Response**

<b>P301+P310</b>	IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician/first aider.
<b>P331</b>	Do NOT induce vomiting.
<b>P370+P378</b>	In case of fire: Use alcohol resistant foam or normal protein foam to extinguish.
<b>P305+P351+P338</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Precautionary statement(s) Storage**

<b>P403+P235</b>	Store in a well-ventilated place. Keep cool.
<b>P405</b>	Store locked up.

**Precautionary statement(s) Disposal**

<b>P501</b>	Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.
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No further product hazard information.

**SECTION 3 Composition / information on ingredients****Substances**

See section below for composition of Mixtures

**Mixtures**

CAS No	%[weight]	Name
111-84-2	99.99444	<u>n-nonane</u>
103426-97-7	0.00028	<u>hexachloronaphthalene</u>
17062-87-2	0.00028	<u>1,2,3,6,7,8-HEXACN (CHEMICAL PURITY 97%) UNLABLED</u>
2234-13-1	0.00028	<u>octachloronaphthalene</u>
53555-65-0	0.00028	<u>pentachloronaphthalene</u>
103426-94-4	0.00028	<u>1,2,3,5,7,8-HEXACN UNLABLED</u>
58863-14-2	0.00028	<u>1,2,3,4,5,6,7-HEPTACN UNLABLED</u>
53555-63-8	0.00028	<u>1,2,3,5-TETRACN UNLABLED</u>
53555-64-9	0.00028	<u>tetrachloronaphthalene</u>
34588-40-4	0.00028	<u>2,3,6,7-TETRACN UNLABLED</u>
50402-52-3	0.00028	<u>trichloronaphthalene</u>
1825-30-5	0.00028	<u>1,5-DICN UNLABLED</u>
103426-95-5	0.00028	<u>1,2,3,5,6,8-HEXACN UNLABLED</u>
3432-57-3	0.00028	<u>1,4,5,8-TETRACN UNLABLED</u>
67922-25-2	0.00028	<u>1,2,3,4,5-PENTACN UNLABLED</u>
103426-93-3	0.00028	<u>1,2,3,4,5,8-HEXACN 97% CHEMICAL PURITY UNLABLED</u>
67922-26-3	0.00028	<u>1,2,3,4,6-PENTACN UNLABLED (97% CHEMICAL PURITY)</u>
150224-24-1	0.00028	<u>1,2,3,5,8-PENTACN UNLABLED</u>
20020-02-4	0.00028	<u>1,2,3,4-TETRACHLORONAPHTHALENE UNLABLED</u>
103426-92-2	0.00028	<u>1,2,4,5,7,8-HEXACN UNLABLED</u>
91-58-7	0.00028	<u>2-chloronaphthalene</u>

**Legend:** 1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&L; \* EU IOELVs available

**SECTION 4 First aid measures****Description of first aid measures**

<b>Eye Contact</b>	If this product comes in contact with the eyes: ► Wash out immediately with fresh running water.
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	<ul style="list-style-type: none"> <li>► Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.</li> <li>► Seek medical attention without delay; if pain persists or recurs seek medical attention.</li> <li>► Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>
<b>Skin Contact</b>	<p>If skin contact occurs:</p> <ul style="list-style-type: none"> <li>► Immediately remove all contaminated clothing, including footwear.</li> <li>► Flush skin and hair with running water (and soap if available).</li> <li>► Seek medical attention in event of irritation.</li> </ul>
<b>Inhalation</b>	<ul style="list-style-type: none"> <li>► If fumes or combustion products are inhaled remove from contaminated area.</li> <li>► Lay patient down. Keep warm and rested.</li> <li>► Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>► Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.</li> <li>► Transport to hospital, or doctor, without delay.</li> </ul>
<b>Ingestion</b>	<ul style="list-style-type: none"> <li>► <b>If swallowed do NOT induce vomiting.</b></li> <li>► If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> <li>► Observe the patient carefully.</li> <li>► Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.</li> <li>► Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.</li> <li>► Seek medical advice.</li> <li>► Avoid giving milk or oils.</li> <li>► Avoid giving alcohol.</li> <li>► If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of vomitus.</li> </ul>

**Indication of any immediate medical attention and special treatment needed**

For acute or short term repeated exposures to petroleum distillates or related hydrocarbons:

- Primary threat to life, from pure petroleum distillate ingestion and/or inhalation, is respiratory failure.
- Patients should be quickly evaluated for signs of respiratory distress (e.g. cyanosis, tachypnoea, intercostal retraction, obtundation) and given oxygen. Patients with inadequate tidal volumes or poor arterial blood gases (pO<sub>2</sub> 50 mm Hg) should be intubated.
- Arrhythmias complicate some hydrocarbon ingestion and/or inhalation and electrocardiographic evidence of myocardial injury has been reported; intravenous lines and cardiac monitors should be established in obviously symptomatic patients. The lungs excrete inhaled solvents, so that hyperventilation improves clearance.
- A chest x-ray should be taken immediately after stabilisation of breathing and circulation to document aspiration and detect the presence of pneumothorax.
- Epinephrine (adrenalin) is not recommended for treatment of bronchospasm because of potential myocardial sensitisation to catecholamines. Inhaled cardioselective bronchodilators (e.g. Alupent, Salbutamol) are the preferred agents, with aminophylline a second choice.
- Lavage is indicated in patients who require decontamination; ensure use of cuffed endotracheal tube in adult patients. [Ellenhorn and Barceloux: Medical Toxicology]

**SECTION 5 Firefighting measures****Extinguishing media****Special hazards arising from the substrate or mixture**

<b>Fire Incompatibility</b>	<ul style="list-style-type: none"> <li>► Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result</li> </ul>
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**Advice for firefighters**

<b>Fire Fighting</b>	
<b>Fire/Explosion Hazard</b>	<ul style="list-style-type: none"> <li>► Liquid and vapour are flammable.</li> <li>► Moderate fire hazard when exposed to heat or flame.</li> <li>► Vapour forms an explosive mixture with air.</li> <li>► Moderate explosion hazard when exposed to heat or flame.</li> </ul> <p>Combustion products include: carbon monoxide (CO) carbon dioxide (CO<sub>2</sub>) other pyrolysis products typical of burning organic material.</p>
<b>HAZCHEM</b>	3Y

**SECTION 6 Accidental release measures****Personal precautions, protective equipment and emergency procedures**

See section 8

**Environmental precautions**

See section 12

**Methods and material for containment and cleaning up**

<b>Minor Spills</b>	<ul style="list-style-type: none"> <li>► Remove all ignition sources.</li> <li>► Clean up all spills immediately.</li> <li>► Avoid breathing vapours and contact with skin and eyes.</li> <li>► Control personal contact with the substance, by using protective equipment.</li> </ul>
<b>Major Spills</b>	<ul style="list-style-type: none"> <li>► Clear area of personnel and move upwind.</li> <li>► Alert Fire Brigade and tell them location and nature of hazard.</li> <li>► Wear breathing apparatus plus protective gloves.</li> <li>► Prevent, by any means available, spillage from entering drains or water course.</li> </ul>

Personal Protective Equipment advice is contained in Section 8 of the SDS.

**SECTION 7 Handling and storage****Precautions for safe handling**

<b>Safe handling</b>	The conductivity of this material may make it a static accumulator. A liquid is typically considered nonconductive if its conductivity is below 100 pS/m and is considered semi-conductive if its conductivity is below 10 000 pS/m. Whether a liquid is nonconductive or semi-conductive,
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the precautions are the same., A number of factors, for example liquid temperature, presence of contaminants, and anti-static additives can greatly influence the conductivity of a liquid.

Even with proper grounding and bonding, this material can still accumulate an electrostatic charge. If sufficient charge is allowed to accumulate, electrostatic discharge and ignition of flammable air-vapour mixtures can occur.

- ▶ Containers, even those that have been emptied, may contain explosive vapours.
- ▶ Do NOT cut, drill, grind, weld or perform similar operations on or near containers.
- Electrostatic discharge may be generated during pumping - this may result in fire.
- Ensure electrical continuity by bonding and grounding (earthing) all equipment.
- Restrict line velocity during pumping in order to avoid generation of electrostatic discharge (<=1 m/sec until fill pipe submerged to twice its diameter, then <= 7 m/sec).
- Avoid splash filling.
- ▶ Avoid all personal contact, including inhalation.
- ▶ Wear protective clothing when risk of overexposure occurs.
- ▶ Use in a well-ventilated area.
- ▶ Prevent concentration in hollows and sumps.
- ▶ **DO NOT allow clothing wet with material to stay in contact with skin**

## Other information

- ▶ Store in original containers in approved flammable liquid storage area.
- ▶ Store away from incompatible materials in a cool, dry, well-ventilated area.
- ▶ **DO NOT store in pits, depressions, basements or areas where vapours may be trapped.**
- ▶ No smoking, naked lights, heat or ignition sources.

## Conditions for safe storage, including any incompatibilities

## Suitable container

- ▶ Packing as supplied by manufacturer.
- ▶ Plastic containers may only be used if approved for flammable liquid.
- ▶ Check that containers are clearly labelled and free from leaks.
- ▶ For low viscosity materials (i) : Drums and jerry cans must be of the non-removable head type. (ii) : Where a can is to be used as an inner package, the can must have a screwed enclosure.
- ▶ For materials with a viscosity of at least 2680 cSt. (23 deg. C)
- ▶ For manufactured product having a viscosity of at least 250 cSt.

## Storage incompatibility

Low molecular weight alkanes are a type of chemical compounds that can be found in gases or liquids. These alkanes:

- ▶ Can cause a dangerous reaction with strong oxidizers, chlorine, chlorine dioxide, and dioxygenyl tetrafluoroborate when there is oxygen and heat present.
- ▶ Are incompatible with halogens.
- ▶ Can create static charges due to their low conductivity, leading to an accumulation of static charge.
- ▶ Avoid reaction with oxidising agents

## SECTION 8 Exposure controls / personal protection

## Control parameters

## Occupational Exposure Limits (OEL)

## INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	n-nonane	Nonane	200 ppm / 1050 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	hexachloronaphthalene	Hexachloronaphthalene	0.2 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	octachloronaphthalene	Octachloronaphthalene	0.1 mg/m3	0.3 mg/m3	Not Available	Not Available
Australia Exposure Standards	pentachloronaphthalene	Pentachloronaphthalene	0.5 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	tetrachloronaphthalene	Tetrachloronaphthalene	2 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	trichloronaphthalene	Tetrachloronaphthalene	2 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	trichloronaphthalene	Trichloronaphthalene	5 mg/m3	Not Available	Not Available	Not Available

Ingredient	Original IDLH	Revised IDLH
n-nonane	Not Available	Not Available
hexachloronaphthalene	2 mg/m3	Not Available
1,2,3,6,7,8-HEXACN (CHEMICAL PURITY 97%) UNLABELED	Not Available	Not Available
octachloronaphthalene	Unknown ppm	Not Available
pentachloronaphthalene	Unknown ppm	Not Available
1,2,3,5,7,8-HEXACN UNLABELED	Not Available	Not Available
1,2,3,4,5,6,7-HEPTACN UNLABELED	Not Available	Not Available
1,2,3,5-TETRACN UNLABELED	Not Available	Not Available
tetrachloronaphthalene	Unknown ppm	Not Available
2,3,6,7-TETRACN UNLABELED	Not Available	Not Available
trichloronaphthalene	Unknown ppm	Not Available
1,5-DICN UNLABELED	Not Available	Not Available
1,2,3,5,6,8-HEXACN UNLABELED	Not Available	Not Available
1,4,5,8-TETRACN UNLABELED	Not Available	Not Available
1,2,3,4,5-PENTACN UNLABELED	Not Available	Not Available
1,2,3,4,5,8-HEXACN 97% CHEMICAL PURITY UNLABELED	Not Available	Not Available

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Ingredient	Original IDLH	Revised IDLH
1,2,3,4,6-PENTACN UNLABLED (97% CHEMICAL PURITY)	Not Available	Not Available
1,2,3,5,8-PENTACN UNLABLED	Not Available	Not Available
1,2,3,4-TETRACHLORONAPHTHALENE UNLABLED	Not Available	Not Available
1,2,4,5,7,8-HEXACN UNLABLED	Not Available	Not Available
2-chloronaphthalene	Not Available	Not Available

## Exposure controls

Appropriate engineering controls	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard 'physically' away from the worker and ventilation that strategically 'adds' and 'removes' air in the work environment.
Individual protection measures, such as personal protective equipment	   
Eye and face protection	<ul style="list-style-type: none"> <li>▶ Safety glasses with side shields.</li> <li>▶ Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent]</li> <li>▶ Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.</li> </ul>
Skin protection	See Hand protection below
Hands/feet protection	<ul style="list-style-type: none"> <li>▶ Wear chemical protective gloves, e.g. PVC.</li> <li>▶ Wear safety footwear or safety gumboots, e.g. Rubber</li> </ul> <p>The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.</p> <p>The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.</p> <p>Personal hygiene is a key element of effective hand care.</p> <ul style="list-style-type: none"> <li>▶ Neoprene gloves</li> </ul>
Body protection	See Other protection below
Other protection	<ul style="list-style-type: none"> <li>▶ Overalls.</li> <li>▶ PVC Apron.</li> <li>▶ PVC protective suit may be required if exposure severe.</li> <li>▶ Eyewash unit.</li> <li>▶ Some plastic personal protective equipment (PPE) (e.g. gloves, aprons, overshoes) are not recommended as they may produce static electricity.</li> <li>▶ For large scale or continuous use wear tight-weave non-static clothing (no metallic fasteners, cuffs or pockets).</li> <li>▶ Non sparking safety or conductive footwear should be considered. Conductive footwear describes a boot or shoe with a sole made from a conductive compound chemically bound to the bottom components, for permanent control to electrically ground the foot and shall dissipate static electricity from the body to reduce the possibility of ignition of volatile compounds.</li> </ul>

## Respiratory protection

Type A Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the 'Exposure Standard' (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	A-AUS	-	A-PAPR-AUS / Class 1
up to 50 x ES	-	A-AUS / Class 1	-
up to 100 x ES	-	A-2	A-PAPR-2 ^

^ - Full-face

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO<sub>2</sub>), G = Agricultural chemicals, K = Ammonia(NH<sub>3</sub>), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

- ▶ Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.
- ▶ The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.
- ▶ Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used

## SECTION 9 Physical and chemical properties

## Information on basic physical and chemical properties

Appearance	colourless		
Physical state	Liquid	Relative density (Water = 1)	0.718
Odour	Not Available	Partition coefficient n-octanol / water	Not Available

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Odour threshold	Not Available	Auto-ignition temperature (°C)	205
pH (as supplied)	Not Available	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	-53	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	151	Molecular weight (g/mol)	128.3
Flash point (°C)	31	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Flammable.	Oxidising properties	Not Available
Upper Explosive Limit (%)	2.9	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	0.87	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	0.569	Gas group	Not Available
Solubility in water	Partly miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available
Heat of Combustion (kJ/g)	Not Available	Ignition Distance (cm)	Not Available
Flame Height (cm)	Not Available	Flame Duration (s)	Not Available
Enclosed Space Ignition Time Equivalent (s/m3)	Not Available	Enclosed Space Ignition Deflagration Density (g/m3)	Not Available

## SECTION 10 Stability and reactivity

Reactivity	See section 7
Chemical stability	► Unstable in the presence of incompatible materials. ► Product is considered stable. ► Hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

## SECTION 11 Toxicological information

## Information on toxicological effects

a) Acute Toxicity	There is sufficient evidence to classify this material as acutely toxic.
b) Skin Irritation/Corrosion	There is sufficient evidence to classify this material as skin corrosive or irritating.
c) Serious Eye Damage/Irritation	There is sufficient evidence to classify this material as eye damaging or irritating
d) Respiratory or Skin sensitisation	Based on available data, the classification criteria are not met.
e) Mutagenicity	Based on available data, the classification criteria are not met.
f) Carcinogenicity	Based on available data, the classification criteria are not met.
g) Reproductivity	Based on available data, the classification criteria are not met.
h) STOT - Single Exposure	There is sufficient evidence to classify this material as toxic to specific organs through single exposure
i) STOT - Repeated Exposure	There is sufficient evidence to classify this material as toxic to specific organs through repeated exposure
j) Aspiration Hazard	There is sufficient evidence to classify this material as an aspiration hazard

Inhaled	<p>Inhalation of vapours or aerosols (mists, fumes), generated by the material during the course of normal handling, may be harmful. The material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage. Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by sleepiness, reduced alertness, loss of reflexes, lack of co-ordination, and vertigo. Inhalation hazard is increased at higher temperatures. Inhalation of high concentrations of gas/vapour causes lung irritation with coughing and nausea, central nervous depression with headache and dizziness, slowing of reflexes, fatigue and inco-ordination. Central nervous system (CNS) depression may include general discomfort, symptoms of giddiness, headache, dizziness, nausea, anaesthetic effects, slowed reaction time, slurred speech and may progress to unconsciousness. Serious poisonings may result in respiratory depression and may be fatal. Concentrated nonane vapours may cause irritation of the nose and throat, headache, drowsiness, dizziness, confusion, nausea, tremors, incoordination and difficulty in breathing. Very high concentrations may cause unconsciousness and death. The odour of nitrous oxides is not easily detected. Nerve damage can be caused by some non-ring hydrocarbons. Symptoms are temporary, and include weakness, tremors, increased saliva, some convulsions, excessive tears with discolouration and inco-ordination lasting up to 24 hours.</p>
Ingestion	<p>Accidental ingestion of the material may be damaging to the health of the individual. Isoparaffinic hydrocarbons cause temporary lethargy, weakness, inco-ordination and diarrhoea. Considered an unlikely route of entry in commercial/industrial environments. The liquid may produce gastrointestinal discomfort and may be harmful if swallowed. Central nervous system (CNS) depression may include general discomfort, symptoms of giddiness, headache, dizziness, nausea, anaesthetic effects, slowed reaction time, slurred speech and may progress to unconsciousness. Serious poisonings may result in respiratory depression and may be fatal.</p>
Skin Contact	<p>This material can cause inflammation of the skin on contact in some persons. The material may accentuate any pre-existing dermatitis condition.</p>

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	<p>Skin exposure to isoparaffins may produce slight to moderate irritation in animals and humans. Rare sensitisation reactions in humans have occurred.</p> <p>Open cuts, abraded or irritated skin should not be exposed to this material</p> <p>Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.</p> <p>The liquid may be able to be mixed with fats or oils and may degrease the skin, producing a skin reaction described as non-allergic contact dermatitis. The material is unlikely to produce an irritant dermatitis as described in EC Directives.</p>										
<b>Eye</b>	<p>This material causes serious eye irritation.</p> <p>Instillation of isoparaffins into rabbit eyes produces only slight irritation.</p>										
<b>Chronic</b>	<p>Repeated or long-term occupational exposure is likely to produce cumulative health effects involving organs or biochemical systems.</p> <p>Long-term exposure to respiratory irritants may result in airways disease, involving difficulty breathing and related whole-body problems.</p> <p>Implantation studies in rats show that paraffin oils may cause tumours. As a general rule, the highly refined paraffins are believed to contain less suspect polycyclic aromatic hydrocarbons than less refined grades or waxes derived from naphthenic base-stocks.</p>										
<b>MONO-OCTA PCN NATIVE PAR SOLUTION UNLABLED 2000 NG/ML IN NONANE</b>	<table border="1"> <tr> <td><b>TOXICITY</b></td><td><b>IRRITATION</b></td></tr> <tr> <td>Not Available</td><td>Not Available</td></tr> </table>	<b>TOXICITY</b>	<b>IRRITATION</b>	Not Available	Not Available						
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Not Available	Not Available										
<b>n-nonane</b>	<table border="1"> <tr> <td><b>TOXICITY</b></td><td><b>IRRITATION</b></td></tr> <tr> <td>Dermal (rabbit) LD50: &gt;2000 mg/kg<sup>[1]</sup></td><td>Eye: no adverse effect observed (not irritating)<sup>[1]</sup></td></tr> <tr> <td>Inhalation (Rat) LC50: 3200 ppm<sup>[2]</sup></td><td>Skin (Mammal - pig): 250uL/24H - Mild</td></tr> <tr> <td>Oral (Rat) LD50: &gt;5000 mg/kg<sup>[1]</sup></td><td>Skin (Rodent - rat): 300uL/4D - Moderate</td></tr> <tr> <td></td><td>Skin: adverse effect observed (irritating)<sup>[1]</sup></td></tr> </table>	<b>TOXICITY</b>	<b>IRRITATION</b>	Dermal (rabbit) LD50: >2000 mg/kg <sup>[1]</sup>	Eye: no adverse effect observed (not irritating) <sup>[1]</sup>	Inhalation (Rat) LC50: 3200 ppm <sup>[2]</sup>	Skin (Mammal - pig): 250uL/24H - Mild	Oral (Rat) LD50: >5000 mg/kg <sup>[1]</sup>	Skin (Rodent - rat): 300uL/4D - Moderate		Skin: adverse effect observed (irritating) <sup>[1]</sup>
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<b>hexachloronaphthalene</b>	<table border="1"> <tr> <td><b>TOXICITY</b></td><td><b>IRRITATION</b></td></tr> <tr> <td>Oral (Guinea) LD50; &gt;3.61 mg/kg<sup>[2]</sup></td><td>Not Available</td></tr> </table>	<b>TOXICITY</b>	<b>IRRITATION</b>	Oral (Guinea) LD50; >3.61 mg/kg <sup>[2]</sup>	Not Available						
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Oral (Guinea) LD50; >3.61 mg/kg <sup>[2]</sup>	Not Available										
<b>1,2,3,6,7,8-HEXACN (CHEMICAL PURITY 97%) UNLABLED</b>	<table border="1"> <tr> <td><b>TOXICITY</b></td><td><b>IRRITATION</b></td></tr> <tr> <td>Not Available</td><td>Not Available</td></tr> </table>	<b>TOXICITY</b>	<b>IRRITATION</b>	Not Available	Not Available						
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<b>octachloronaphthalene</b>	<table border="1"> <tr> <td><b>TOXICITY</b></td><td><b>IRRITATION</b></td></tr> <tr> <td>Not Available</td><td>Not Available</td></tr> </table>	<b>TOXICITY</b>	<b>IRRITATION</b>	Not Available	Not Available						
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<b>pentachloronaphthalene</b>	<table border="1"> <tr> <td><b>TOXICITY</b></td><td><b>IRRITATION</b></td></tr> <tr> <td>Not Available</td><td>Not Available</td></tr> </table>	<b>TOXICITY</b>	<b>IRRITATION</b>	Not Available	Not Available						
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<b>1,2,3,4,5,6,7-HEPTACN UNLABLED</b>	<table border="1"> <tr> <td><b>TOXICITY</b></td><td><b>IRRITATION</b></td></tr> <tr> <td>Not Available</td><td>Not Available</td></tr> </table>	<b>TOXICITY</b>	<b>IRRITATION</b>	Not Available	Not Available						
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<b>1,2,3,5-TETRACN UNLABLED</b>	<table border="1"> <tr> <td><b>TOXICITY</b></td><td><b>IRRITATION</b></td></tr> <tr> <td>Not Available</td><td>Not Available</td></tr> </table>	<b>TOXICITY</b>	<b>IRRITATION</b>	Not Available	Not Available						
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<b>tetrachloronaphthalene</b>	<table border="1"> <tr> <td><b>TOXICITY</b></td><td><b>IRRITATION</b></td></tr> <tr> <td>Oral (Guinea) LD50; &gt;3 mg/kg<sup>[2]</sup></td><td>Not Available</td></tr> </table>	<b>TOXICITY</b>	<b>IRRITATION</b>	Oral (Guinea) LD50; >3 mg/kg <sup>[2]</sup>	Not Available						
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<b>2,3,6,7-TETRACN UNLABLED</b>	<table border="1"> <tr> <td><b>TOXICITY</b></td><td><b>IRRITATION</b></td></tr> <tr> <td>Oral (Guinea) LD50; &gt;3 mg/kg<sup>[2]</sup></td><td>Not Available</td></tr> </table>	<b>TOXICITY</b>	<b>IRRITATION</b>	Oral (Guinea) LD50; >3 mg/kg <sup>[2]</sup>	Not Available						
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<b>trichloronaphthalene</b>	<table border="1"> <tr> <td><b>TOXICITY</b></td><td><b>IRRITATION</b></td></tr> <tr> <td>Not Available</td><td>Not Available</td></tr> </table>	<b>TOXICITY</b>	<b>IRRITATION</b>	Not Available	Not Available						
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<b>1,5-DICN UNLABLED</b>	<table border="1"> <tr> <td><b>TOXICITY</b></td><td><b>IRRITATION</b></td></tr> <tr> <td>Not Available</td><td>Not Available</td></tr> </table>	<b>TOXICITY</b>	<b>IRRITATION</b>	Not Available	Not Available						
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<b>1,2,3,5,6,8-HEXACN UNLABLED</b>	<table border="1"> <tr> <td><b>TOXICITY</b></td><td><b>IRRITATION</b></td></tr> <tr> <td>Not Available</td><td>Not Available</td></tr> </table>	<b>TOXICITY</b>	<b>IRRITATION</b>	Not Available	Not Available						
<b>TOXICITY</b>	<b>IRRITATION</b>										
Not Available	Not Available										

## MONO-OCTA PCN NATIVE PAR SOLUTION UNLABELED 2000 NG/ML IN NONANE

1,4,5,8-TETRACN UNLABELED	TOXICITY	IRRITATION
	Not Available	Not Available
1,2,3,4,5-PENTACN UNLABELED	TOXICITY	IRRITATION
	Not Available	Not Available
1,2,3,4,5,8-HEXACN 97% CHEMICAL PURITY UNLABELED	TOXICITY	IRRITATION
	Not Available	Not Available
1,2,3,4,6-PENTACN UNLABELED (97% CHEMICAL PURITY)	TOXICITY	IRRITATION
	Not Available	Not Available
1,2,3,5,8-PENTACN UNLABELED	TOXICITY	IRRITATION
	Not Available	Not Available
1,2,3,4-TETRACHLORONAPHTHALENE UNLABELED	TOXICITY	IRRITATION
	Not Available	Not Available
1,2,4,5,7,8-HEXACN UNLABELED	TOXICITY	IRRITATION
	Not Available	Not Available
2-chloronaphthalene	TOXICITY	IRRITATION
	Oral (Mouse) LD50; 886 mg/kg <sup>[2]</sup>	Not Available

**Legend:**

1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances

MONO-OCTA PCN NATIVE PAR SOLUTION UNLABELED 2000 NG/ML IN NONANE & N-NONANE	Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophilia. Animal studies indicate that normal, branched and cyclic paraffins are absorbed from the gastrointestinal tract and that the absorption of n-paraffins is inversely proportional to the carbon chain length, with little absorption above C30. With respect to the carbon chain lengths likely to be present in mineral oil, n-paraffins may be absorbed to a greater extent than iso- or cyclo-paraffins. The major classes of hydrocarbons are well absorbed into the gastrointestinal tract in various species. In many cases, the hydrophobic hydrocarbons are ingested in association with fats in the diet. Some hydrocarbons may appear unchanged as in the lipoprotein particles in the gut lymph, but most hydrocarbons partly separate from fats and undergo metabolism in the gut cell. Animal testing showed exposure to high concentrations (over 3500 parts per million) of C9 to C13 alkanes in air caused inco-ordination, seizures and spasms. Cerebellar damage was found on autopsy in some animals. It appears that exposure may possibly damage the central nervous system.	
	The following information refers to contact allergens as a group and may not be specific to this product. Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact urticaria, involve antibody-mediated immune reactions. for polychlorinated naphthalenes (PCN): Chlorinated naphthalenes can be absorbed via oral, inhalative, and dermal routes, with absorption and distribution over the whole body after oral administration. The main target organs are liver and fat tissue (besides kidney and lung), both showing a high retention, especially for higher chlorinated congeners such as 1,2,3,4,6,7/1,2,3,5,6,7-hexachloronaphthalene. Half-lives of 1,2,3,4,6,7/1,2,3,5,6,7-hexachloronaphthalene were calculated to be 41 days in adipose tissue and 26 days in the liver of rats. Calculations with monitoring data from human blood samples suggested half-lives of 1.5-2.4 years for these hexa-isomers in humans.	

Acute Toxicity	✓	Carcinogenicity	✗
Skin Irritation/Corrosion	✓	Reproductivity	✗
Serious Eye Damage/Irritation	✓	STOT - Single Exposure	✓
Respiratory or Skin sensitisation	✗	STOT - Repeated Exposure	✓
Mutagenicity	✗	Aspiration Hazard	✓

**Legend:** ✗ – Data either not available or does not fill the criteria for classification  
✓ – Data available to make classification

**SECTION 12 Ecological information****Toxicity**

Continued...

## MONO-OCTA PCN NATIVE PAR SOLUTION UNLabeled 2000 NG/ML IN NONANE

MONO-OCTA PCN NATIVE PAR SOLUTION UNLabeled 2000 NG/ML IN NONANE	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available	Not Available	Not Available	Not Available	Not Available
n-nonane	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	48h	Crustacea	0.4mg/l	2
	NOEC(ECx)	504h	Crustacea	0.17mg/l	2
	LC50	96h	Fish	0.11mg/l	2
hexachloronaphthalene	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available	Not Available	Not Available	Not Available	Not Available
1,2,3,6,7,8-HEXACN (CHEMICAL PURITY 97%) UNLabeled	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available	Not Available	Not Available	Not Available	Not Available
octachloronaphthalene	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	72h	Algae or other aquatic plants	>500mg/L	4
	EC50	96h	Algae or other aquatic plants	>500mg/L	4
	LC50	96h	Fish	>600mg/l	4
pentachloronaphthalene	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available	Not Available	Not Available	Not Available	Not Available
1,2,3,5,7,8-HEXACN UNLabeled	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available	Not Available	Not Available	Not Available	Not Available
1,2,3,4,5,6,7-HEPTACN UNLabeled	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available	Not Available	Not Available	Not Available	Not Available
1,2,3,5-TETRACN UNLabeled	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available	Not Available	Not Available	Not Available	Not Available
tetrachloronaphthalene	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available	Not Available	Not Available	Not Available	Not Available
2,3,6,7-TETRACN UNLabeled	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available	Not Available	Not Available	Not Available	Not Available
trichloronaphthalene	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available	Not Available	Not Available	Not Available	Not Available
1,5-DICN UNLabeled	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available	Not Available	Not Available	Not Available	Not Available
1,2,3,5,6,8-HEXACN UNLabeled	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available	Not Available	Not Available	Not Available	Not Available
1,4,5,8-TETRACN UNLabeled	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available	Not Available	Not Available	Not Available	Not Available
1,2,3,4,5-PENTACN UNLabeled	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available	Not Available	Not Available	Not Available	Not Available
1,2,3,4,5,8-HEXACN 97% CHEMICAL PURITY UNLabeled	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available	Not Available	Not Available	Not Available	Not Available

Continued...

## MONO-OCTA PCN NATIVE PAR SOLUTION UNLABELED 2000 NG/ML IN NONANE

1,2,3,4,6-PENTACN UNLABELED (97% CHEMICAL PURITY)	Endpoint Not Available	Test Duration (hr) Not Available	Species Not Available	Value Not Available	Source Not Available
1,2,3,5,8-PENTACN UNLABELED	Endpoint Not Available	Test Duration (hr) Not Available	Species Not Available	Value Not Available	Source Not Available
1,2,3,4-TETRACHLORONAPHTHALENE UNLABELED	Endpoint Not Available	Test Duration (hr) Not Available	Species Not Available	Value Not Available	Source Not Available
1,2,4,5,7,8-HEXACN UNLABELED	Endpoint Not Available	Test Duration (hr) Not Available	Species Not Available	Value Not Available	Source Not Available
2-chloronaphthalene	Endpoint Not Available	Test Duration (hr) Not Available	Species Not Available	Value Not Available	Source Not Available

**Legend:**

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. US EPA, Ecotox database - Aquatic Toxicity Data 4. ECETOC Aquatic Hazard Assessment Data 5. NITE (Japan) - Bioconcentration Data 6. METI (Japan) - Bioconcentration Data 7. Vendor Data

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters.

Wastes resulting from use of the product must be disposed of on site or at approved waste sites.

When spilled this product may act as a typical oil, causing a film, sheen, emulsion or sludge at or beneath the surface of the body of water. The oil film on water surface may physically affect the aquatic organisms, due to the interruption of the oxygen transfer between the air and the water

Oils of any kind can cause:

- drowning of water-fowl due to lack of buoyancy, loss of insulating capacity of feathers, starvation and vulnerability to predators due to lack of mobility
- lethal effects on fish by coating gill surfaces, preventing respiration
- asphyxiation of benthic life forms when floating masses become engaged with surface debris and settle on the bottom and
- adverse aesthetic effects of fouled shoreline and beaches

In case of accidental releases on the soil, a fine film is formed on the soil, which prevents the plant respiration process and the soil particle saturation. It may cause deep water infestation.

When released in the environment, alkanes don't undergo rapid biodegradation, because they have no functional groups (like hydroxyl or carbonyl) that are needed by most organisms in order to metabolize the compound.

However, some bacteria can metabolise some alkanes (especially those linear and short), by oxidizing the terminal carbon atom. The product is an alcohol, that could be next oxidised to an aldehyde, and finally to a carboxylic acid. The resulting fatty acid could be metabolised through the fatty acid degradation pathway.

Environmental Fate:

Terrestrial Fate: If released on land, n-nonane will be immobile and will volatilize from moist and dry soil surfaces based upon its physico-chemical properties. However, volatilization will be attenuated by its adsorption to soil. In the event that volatilization is not possible then biodegradation of the compound will take place.

Aquatic Fate: If released to water, n-nonane is expected to volatilize from water surfaces and will also be adsorbed to suspended solids and sediment.

**DO NOT** discharge into sewer or waterways.

**Persistence and degradability**

Ingredient	Persistence: Water/Soil	Persistence: Air
n-nonane	LOW	LOW
hexachloronaphthalene	HIGH (Half-life = 718.75 days)	MEDIUM (Half-life = 136.25 days)
octachloronaphthalene	HIGH (Half-life = 730 days)	HIGH (Half-life = 670.08 days)
pentachloronaphthalene	HIGH	HIGH
1,2,3,5-TETRACN UNLABELED	HIGH	HIGH
tetrachloronaphthalene	HIGH	HIGH
trichloronaphthalene	HIGH	HIGH
1,2,3,4-TETRACHLORONAPHTHALENE UNLABELED	HIGH	HIGH
2-chloronaphthalene	HIGH	HIGH

**Bioaccumulative potential**

Ingredient	Bioaccumulation
n-nonane	HIGH (LogKOW = 5.65)
hexachloronaphthalene	LOW (LogKOW = 7.7)
octachloronaphthalene	LOW (LogKOW = 8.24)
pentachloronaphthalene	HIGH (LogKOW = 7)
1,2,3,5-TETRACN UNLABELED	LOW (LogKOW = 3.3385)
tetrachloronaphthalene	HIGH (LogKOW = 5.75)
trichloronaphthalene	HIGH (LogKOW = 5.75)
1,5-DICN UNLABELED	MEDIUM (LogKOW = 4.3)
1,2,3,4,6-PENTACN UNLABELED (97% CHEMICAL PURITY)	HIGH (LogKOW = 7)
1,2,3,5,8-PENTACN UNLABELED	HIGH (LogKOW = 6.8)

Continued...

## MONO-OCTA PCN NATIVE PAR SOLUTION UNLabeled 2000 NG/ML IN NONANE

Ingredient	Bioaccumulation
1,2,3,4-TETRACHLORONAPHTHALENE UNLabeled	HIGH (LogKOW = 5.75)
2-chloronaphthalene	MEDIUM (LogKOW = 3.9)

## Mobility in soil

Ingredient	Mobility
n-nonane	LOW (Log KOC = 934.6)
hexachloronaphthalene	LOW (Log KOC = 37530)
octachloronaphthalene	LOW (Log KOC = 106900)
pentachloronaphthalene	LOW (Log KOC = 22240)
1,2,3,5-TETRACN UNLabeled	LOW (Log KOC = 241.3)
tetrachloronaphthalene	LOW (Log KOC = 241.3)
trichloronaphthalene	LOW (Log KOC = 241.3)
1,2,3,4-TETRACHLORONAPHTHALENE UNLabeled	LOW (Log KOC = 14010)
2-chloronaphthalene	LOW (Log KOC = 2976)

## SECTION 13 Disposal considerations

## Waste treatment methods

Product / Packaging disposal	Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked. A Hierarchy of Controls seems to be common - the user should investigate: <ul style="list-style-type: none"><li>▶ Reduction</li><li>▶ Reuse</li><li>▶ Recycling</li><li>▶ Disposal (if all else fails)</li></ul> This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use.
	<ul style="list-style-type: none"><li>▶ <b>DO NOT</b> allow wash water from cleaning or process equipment to enter drains.</li><li>▶ It may be necessary to collect all wash water for treatment before disposal.</li><li>▶ In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.</li><li>▶ Where in doubt contact the responsible authority.</li><li>▶ Recycle wherever possible.</li><li>▶ Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.</li><li>▶ Dispose of by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or Incineration in a licensed apparatus (after admixture with suitable combustible material).</li><li>▶ Decontaminate empty containers.</li></ul>

## SECTION 14 Transport information

## Labels Required

	
Marine Pollutant	
HAZCHEM	3Y

## Land transport (ADG)

14.1. UN number or ID number	1920	
14.2. UN proper shipping name	NONANES	
14.3. Transport hazard class(es)	Class	3
	Subsidiary Hazard	Not Applicable
14.4. Packing group	III	
14.5. Environmental hazard	Environmentally hazardous	
14.6. Special precautions for user	Special provisions	Not Applicable
	Limited quantity	5 L

## Air transport (ICAO-IATA / DGR)

14.1. UN number	1920
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Continued...

## MONO-OCTA PCN NATIVE PAR SOLUTION UNLABLED 2000 NG/ML IN NONANE

14.2. UN proper shipping name	Nonanes	
14.3. Transport hazard class(es)	ICAO/IATA Class	3
	ICAO / IATA Subsidiary Hazard	Not Applicable
	ERG Code	3L
14.4. Packing group	III	
14.5. Environmental hazard	Environmentally hazardous	
14.6. Special precautions for user	Special provisions	Not Applicable
	Cargo Only Packing Instructions	366
	Cargo Only Maximum Qty / Pack	220 L
	Passenger and Cargo Packing Instructions	355
	Passenger and Cargo Maximum Qty / Pack	60 L
	Passenger and Cargo Limited Quantity Packing Instructions	Y344
	Passenger and Cargo Limited Maximum Qty / Pack	10 L

## Sea transport (IMDG-Code / GGVSee)

14.1. UN number	1920	
14.2. UN proper shipping name	NONANES	
14.3. Transport hazard class(es)	IMDG Class	3
	IMDG Subsidiary Hazard	P
14.4. Packing group	III	
14.5 Environmental hazard	Marine Pollutant	
14.6. Special precautions for user	EMS Number	F-E, S-E
	Special provisions	Not Applicable
	Limited Quantities	5 L

## 14.7. Maritime transport in bulk according to IMO instruments

## 14.7.1. Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

## 14.7.2. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
n-nonane	Not Applicable
hexachloronaphthalene	Not Applicable
1,2,3,6,7,8-HEXACN (CHEMICAL PURITY 97%) UNLABLED	Not Applicable
octachloronaphthalene	Not Applicable
pentachloronaphthalene	Not Applicable
1,2,3,5,7,8-HEXACN UNLABLED	Not Applicable
1,2,3,4,5,6,7-HEPTACN UNLABLED	Not Applicable
1,2,3,5-TETRACN UNLABLED	Not Applicable
tetrachloronaphthalene	Not Applicable
2,3,6,7-TETRACN UNLABLED	Not Applicable
trichloronaphthalene	Not Applicable
1,5-DICN UNLABLED	Not Applicable
1,2,3,5,6,8-HEXACN UNLABLED	Not Applicable
1,4,5,8-TETRACN UNLABLED	Not Applicable
1,2,3,4,5-PENTACN UNLABLED	Not Applicable
1,2,3,4,5,8-HEXACN 97% CHEMICAL PURITY UNLABLED	Not Applicable
1,2,3,4,6-PENTACN UNLABLED (97% CHEMICAL PURITY)	Not Applicable
1,2,3,5,8-PENTACN UNLABLED	Not Applicable
1,2,3,4- TETRACHLORONAPHTHALENE UNLABLED	Not Applicable

Continued...

## MONO-OCTA PCN NATIVE PAR SOLUTION UNLABELED 2000 NG/ML IN NONANE

Product name	Group
1,2,4,5,7,8-HEXACN UNLABELED	Not Applicable
2-chloronaphthalene	Not Applicable

**14.7.3. Transport in bulk in accordance with the IGC Code**

Product name	Ship Type
n-nonane	Not Applicable
hexachloronaphthalene	Not Applicable
1,2,3,6,7,8-HEXACN (CHEMICAL PURITY 97%) UNLABELED	Not Applicable
octachloronaphthalene	Not Applicable
pentachloronaphthalene	Not Applicable
1,2,3,5,7,8-HEXACN UNLABELED	Not Applicable
1,2,3,4,5,6,7-HEPTACN UNLABELED	Not Applicable
1,2,3,5-TETRACN UNLABELED	Not Applicable
tetrachloronaphthalene	Not Applicable
2,3,6,7-TETRACN UNLABELED	Not Applicable
trichloronaphthalene	Not Applicable
1,5-DICN UNLABELED	Not Applicable
1,2,3,5,6,8-HEXACN UNLABELED	Not Applicable
1,4,5,8-TETRACN UNLABELED	Not Applicable
1,2,3,4,5-PENTACN UNLABELED	Not Applicable
1,2,3,4,5,8-HEXACN 97% CHEMICAL PURITY UNLABELED	Not Applicable
1,2,3,4,6-PENTACN UNLABELED (97% CHEMICAL PURITY)	Not Applicable
1,2,3,5,8-PENTACN UNLABELED	Not Applicable
1,2,3,4-TETRACHLORONAPHTHALENE UNLABELED	Not Applicable
1,2,4,5,7,8-HEXACN UNLABELED	Not Applicable
2-chloronaphthalene	Not Applicable

**SECTION 15 Regulatory information****Safety, health and environmental regulations / legislation specific for the substance or mixture****| n-nonane is found on the following regulatory lists**

Australian Inventory of Industrial Chemicals (AIIC)

**| hexachloronaphthalene is found on the following regulatory lists**

Australia Industrial Chemicals Environmental Management (IChEMS Register) Instrument 2022 - Schedule 7 - Relevant industrial chemicals that are likely to cause serious or irreversible harm to the environment with no essential uses

Chemical Footprint Project - Chemicals of High Concern List

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

Stockholm Convention on Persistent Organic Pollutants - Annex A - Elimination

Stockholm Convention on Persistent Organic Pollutants (POPs) - Annex C: Unintentional Production

**| 1,2,3,6,7,8-HEXACN (CHEMICAL PURITY 97%) UNLABELED is found on the following regulatory lists**

Australia Industrial Chemicals Environmental Management (IChEMS Register) Instrument 2022 - Schedule 7 - Relevant industrial chemicals that are likely to cause serious or irreversible harm to the environment with no essential uses

Chemical Footprint Project - Chemicals of High Concern List

Stockholm Convention on Persistent Organic Pollutants - Annex A - Elimination

Stockholm Convention on Persistent Organic Pollutants (POPs) - Annex C: Unintentional Production

**| octachloronaphthalene is found on the following regulatory lists**

Australia Industrial Chemicals Environmental Management (IChEMS Register) Instrument 2022 - Schedule 7 - Relevant industrial chemicals that are likely to cause serious or irreversible harm to the environment with no essential uses

Australian Inventory of Industrial Chemicals (AIIC)

Chemical Footprint Project - Chemicals of High Concern List

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

Stockholm Convention on Persistent Organic Pollutants - Annex A - Elimination

Stockholm Convention on Persistent Organic Pollutants (POPs) - Annex C: Unintentional Production

**| pentachloronaphthalene is found on the following regulatory lists**

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Continued...

**MONO-OCTA PCN NATIVE PAR SOLUTION UNLABELED 2000 NG/ML IN NONANE**

Australia Industrial Chemicals Environmental Management (IChEMS Register) Instrument 2022 - Schedule 7 - Relevant industrial chemicals that are likely to cause serious or irreversible harm to the environment with no essential uses  
Chemical Footprint Project - Chemicals of High Concern List  
International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)  
Stockholm Convention on Persistent Organic Pollutants - Annex A - Elimination  
Stockholm Convention on Persistent Organic Pollutants (POPs) - Annex C: Unintentional Production

**1,2,3,5,7,8-HEXACN UNLABELED is found on the following regulatory lists**

Australia Industrial Chemicals Environmental Management (IChEMS Register) Instrument 2022 - Schedule 7 - Relevant industrial chemicals that are likely to cause serious or irreversible harm to the environment with no essential uses  
Chemical Footprint Project - Chemicals of High Concern List  
Stockholm Convention on Persistent Organic Pollutants - Annex A - Elimination  
Stockholm Convention on Persistent Organic Pollutants (POPs) - Annex C: Unintentional Production

**1,2,3,4,5,6,7-HEPTACN UNLABELED is found on the following regulatory lists**

Australia Industrial Chemicals Environmental Management (IChEMS Register) Instrument 2022 - Schedule 7 - Relevant industrial chemicals that are likely to cause serious or irreversible harm to the environment with no essential uses  
Chemical Footprint Project - Chemicals of High Concern List  
Stockholm Convention on Persistent Organic Pollutants - Annex A - Elimination  
Stockholm Convention on Persistent Organic Pollutants (POPs) - Annex C: Unintentional Production

**1,2,3,5-TETRACN UNLABELED is found on the following regulatory lists**

Australia Industrial Chemicals Environmental Management (IChEMS Register) Instrument 2022 - Schedule 7 - Relevant industrial chemicals that are likely to cause serious or irreversible harm to the environment with no essential uses  
Chemical Footprint Project - Chemicals of High Concern List  
International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)  
Stockholm Convention on Persistent Organic Pollutants - Annex A - Elimination  
Stockholm Convention on Persistent Organic Pollutants (POPs) - Annex C: Unintentional Production

**tetrachloronaphthalene is found on the following regulatory lists**

Australia Industrial Chemicals Environmental Management (IChEMS Register) Instrument 2022 - Schedule 7 - Relevant industrial chemicals that are likely to cause serious or irreversible harm to the environment with no essential uses  
Chemical Footprint Project - Chemicals of High Concern List  
International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)  
Stockholm Convention on Persistent Organic Pollutants - Annex A - Elimination  
Stockholm Convention on Persistent Organic Pollutants (POPs) - Annex C: Unintentional Production

**2,3,6,7-TETRACN UNLABELED is found on the following regulatory lists**

Australia Industrial Chemicals Environmental Management (IChEMS Register) Instrument 2022 - Schedule 7 - Relevant industrial chemicals that are likely to cause serious or irreversible harm to the environment with no essential uses  
Chemical Footprint Project - Chemicals of High Concern List  
Stockholm Convention on Persistent Organic Pollutants - Annex A - Elimination  
Stockholm Convention on Persistent Organic Pollutants (POPs) - Annex C: Unintentional Production

**trichloronaphthalene is found on the following regulatory lists**

Australia Industrial Chemicals Environmental Management (IChEMS Register) Instrument 2022 - Schedule 7 - Relevant industrial chemicals that are likely to cause serious or irreversible harm to the environment with no essential uses  
Chemical Footprint Project - Chemicals of High Concern List  
International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)  
Stockholm Convention on Persistent Organic Pollutants - Annex A - Elimination  
Stockholm Convention on Persistent Organic Pollutants (POPs) - Annex C: Unintentional Production

**1,5-DICN UNLABELED is found on the following regulatory lists**

Australia Industrial Chemicals Environmental Management (IChEMS Register) Instrument 2022 - Schedule 7 - Relevant industrial chemicals that are likely to cause serious or irreversible harm to the environment with no essential uses  
Chemical Footprint Project - Chemicals of High Concern List  
Stockholm Convention on Persistent Organic Pollutants - Annex A - Elimination  
Stockholm Convention on Persistent Organic Pollutants (POPs) - Annex C: Unintentional Production

**1,2,3,5,6,8-HEXACN UNLABELED is found on the following regulatory lists**

Australia Industrial Chemicals Environmental Management (IChEMS Register) Instrument 2022 - Schedule 7 - Relevant industrial chemicals that are likely to cause serious or irreversible harm to the environment with no essential uses  
Chemical Footprint Project - Chemicals of High Concern List  
Stockholm Convention on Persistent Organic Pollutants - Annex A - Elimination  
Stockholm Convention on Persistent Organic Pollutants (POPs) - Annex C: Unintentional Production

**1,4,5,8-TETRACN UNLABELED is found on the following regulatory lists**

Australia Industrial Chemicals Environmental Management (IChEMS Register) Instrument 2022 - Schedule 7 - Relevant industrial chemicals that are likely to cause serious or irreversible harm to the environment with no essential uses  
Chemical Footprint Project - Chemicals of High Concern List  
International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)  
Stockholm Convention on Persistent Organic Pollutants - Annex A - Elimination  
Stockholm Convention on Persistent Organic Pollutants (POPs) - Annex C: Unintentional Production

**1,2,3,4,5-PENTACN UNLABELED is found on the following regulatory lists**

Australia Industrial Chemicals Environmental Management (IChEMS Register) Instrument 2022 - Schedule 7 - Relevant industrial chemicals that are likely to cause serious or irreversible harm to the environment with no essential uses  
Chemical Footprint Project - Chemicals of High Concern List  
International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)  
Stockholm Convention on Persistent Organic Pollutants - Annex A - Elimination  
Stockholm Convention on Persistent Organic Pollutants (POPs) - Annex C: Unintentional Production

**1,2,3,4,5,8-HEXACN 97% CHEMICAL PURITY UNLABELED is found on the following regulatory lists**

Australia Industrial Chemicals Environmental Management (IChEMS Register) Instrument 2022 - Schedule 7 - Relevant industrial chemicals that are likely to cause serious or irreversible harm to the environment with no essential uses

## MONO-OCTA PCN NATIVE PAR SOLUTION UNLABLED 2000 NG/ML IN NONANE

Chemical Footprint Project - Chemicals of High Concern List

Stockholm Convention on Persistent Organic Pollutants - Annex A - Elimination

Stockholm Convention on Persistent Organic Pollutants (POPs) - Annex C: Unintentional Production

**1,2,3,4,6-PENTACN UNLABLED (97% CHEMICAL PURITY) is found on the following regulatory lists**

Australia Industrial Chemicals Environmental Management (IChEMS Register) Instrument 2022 - Schedule 7 - Relevant industrial chemicals that are likely to cause serious or irreversible harm to the environment with no essential uses

Chemical Footprint Project - Chemicals of High Concern List

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

Stockholm Convention on Persistent Organic Pollutants - Annex A - Elimination

Stockholm Convention on Persistent Organic Pollutants (POPs) - Annex C: Unintentional Production

**1,2,3,5,8-PENTACN UNLABLED is found on the following regulatory lists**

Australia Industrial Chemicals Environmental Management (IChEMS Register) Instrument 2022 - Schedule 7 - Relevant industrial chemicals that are likely to cause serious or irreversible harm to the environment with no essential uses

Chemical Footprint Project - Chemicals of High Concern List

Stockholm Convention on Persistent Organic Pollutants - Annex A - Elimination

Stockholm Convention on Persistent Organic Pollutants (POPs) - Annex C: Unintentional Production

**1,2,3,4-TETRACHLORONAPHTHALENE UNLABLED is found on the following regulatory lists**

Australia Industrial Chemicals Environmental Management (IChEMS Register) Instrument 2022 - Schedule 7 - Relevant industrial chemicals that are likely to cause serious or irreversible harm to the environment with no essential uses

Chemical Footprint Project - Chemicals of High Concern List

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

Stockholm Convention on Persistent Organic Pollutants - Annex A - Elimination

Stockholm Convention on Persistent Organic Pollutants (POPs) - Annex C: Unintentional Production

**1,2,4,5,7,8-HEXACN UNLABLED is found on the following regulatory lists**

Australia Industrial Chemicals Environmental Management (IChEMS Register) Instrument 2022 - Schedule 7 - Relevant industrial chemicals that are likely to cause serious or irreversible harm to the environment with no essential uses

Chemical Footprint Project - Chemicals of High Concern List

Stockholm Convention on Persistent Organic Pollutants - Annex A - Elimination

Stockholm Convention on Persistent Organic Pollutants (POPs) - Annex C: Unintentional Production

**2-chloronaphthalene is found on the following regulatory lists**

Australia Industrial Chemicals Environmental Management (IChEMS Register) Instrument 2022 - Schedule 7 - Relevant industrial chemicals that are likely to cause serious or irreversible harm to the environment with no essential uses

Chemical Footprint Project - Chemicals of High Concern List

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

Stockholm Convention on Persistent Organic Pollutants - Annex A - Elimination

Stockholm Convention on Persistent Organic Pollutants (POPs) - Annex C: Unintentional Production

**Additional Regulatory Information**

Not Applicable

**National Inventory Status**

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	No (hexachloronaphthalene; 1,2,3,6,7,8-HEXACN (CHEMICAL PURITY 97%) UNLABLED; pentachloronaphthalene; 1,2,3,5,7,8-HEXACN UNLABLED; 1,2,3,4,5,6,7-HEPTACN UNLABLED; 1,2,3,5-TETRACN UNLABLED; tetrachloronaphthalene; 2,3,6,7-TETRACN UNLABLED; trichloronaphthalene; 1,5-DICN UNLABLED; 1,2,3,5,6,8-HEXACN UNLABLED; 1,4,5,8-TETRACN UNLABLED; 1,2,3,4,5,8-HEXACN 97% CHEMICAL PURITY UNLABLED; 1,2,3,4,6-PENTACN UNLABLED (97% CHEMICAL PURITY); 1,2,3,5,8-PENTACN UNLABLED; 1,2,3,4-TETRACHLORONAPHTHALENE UNLABLED; 1,2,4,5,7,8-HEXACN UNLABLED; 2-chloronaphthalene)
Canada - DSL	No (hexachloronaphthalene; 1,2,3,6,7,8-HEXACN (CHEMICAL PURITY 97%) UNLABLED; octachloronaphthalene; pentachloronaphthalene; 1,2,3,5,7,8-HEXACN UNLABLED; 1,2,3,4,5,6,7-HEPTACN UNLABLED; 1,2,3,5-TETRACN UNLABLED; tetrachloronaphthalene; 2,3,6,7-TETRACN UNLABLED; trichloronaphthalene; 1,5-DICN UNLABLED; 1,2,3,5,6,8-HEXACN UNLABLED; 1,4,5,8-TETRACN UNLABLED; 1,2,3,4,5-PENTACN UNLABLED; 1,2,3,4,5,8-HEXACN 97% CHEMICAL PURITY UNLABLED; 1,2,3,4,6-PENTACN UNLABLED (97% CHEMICAL PURITY); 1,2,3,5,8-PENTACN UNLABLED; 1,2,3,4-TETRACHLORONAPHTHALENE UNLABLED; 1,2,4,5,7,8-HEXACN UNLABLED)
Canada - NDSL	No (n-nonane; 1,2,3,6,7,8-HEXACN (CHEMICAL PURITY 97%) UNLABLED; octachloronaphthalene; 1,2,3,5,7,8-HEXACN UNLABLED; 1,2,3,4,5,6,7-HEPTACN UNLABLED; 1,2,3,5-TETRACN UNLABLED; 2,3,6,7-TETRACN UNLABLED; 1,2,3,4,5-PENTACN UNLABLED; 1,2,3,4,5,8-HEXACN 97% CHEMICAL PURITY UNLABLED; 1,2,3,4,6-PENTACN UNLABLED (97% CHEMICAL PURITY); 1,2,3,5,8-PENTACN UNLABLED; 1,2,3,4-TETRACHLORONAPHTHALENE UNLABLED; 1,2,4,5,7,8-HEXACN UNLABLED; 2-chloronaphthalene)
China - IECSC	No (hexachloronaphthalene; 1,2,3,6,7,8-HEXACN (CHEMICAL PURITY 97%) UNLABLED; octachloronaphthalene; pentachloronaphthalene; 1,2,3,5,7,8-HEXACN UNLABLED; 1,2,3,4,5,6,7-HEPTACN UNLABLED; 1,2,3,5-TETRACN UNLABLED; 2,3,6,7-TETRACN UNLABLED; 1,5-DICN UNLABLED; 1,2,3,5,6,8-HEXACN UNLABLED; 1,4,5,8-TETRACN UNLABLED; 1,2,3,4,5-PENTACN UNLABLED; 1,2,3,4,5,8-HEXACN 97% CHEMICAL PURITY UNLABLED; 1,2,3,4,6-PENTACN UNLABLED (97% CHEMICAL PURITY); 1,2,3,5,8-PENTACN UNLABLED; 1,2,3,4-TETRACHLORONAPHTHALENE UNLABLED; 1,2,4,5,7,8-HEXACN UNLABLED; 2-chloronaphthalene)
Europe - EINEC / ELINCS / NLP	No (1,2,3,6,7,8-HEXACN (CHEMICAL PURITY 97%) UNLABLED; 1,2,3,5,7,8-HEXACN UNLABLED; 1,2,3,4,5,6,7-HEPTACN UNLABLED; 1,2,3,5-TETRACN UNLABLED; 2,3,6,7-TETRACN UNLABLED; 1,2,3,5,6,8-HEXACN UNLABLED; 1,4,5,8-TETRACN UNLABLED; 1,2,3,4,5-PENTACN UNLABLED; 1,2,3,4,5,8-HEXACN 97% CHEMICAL PURITY UNLABLED; 1,2,3,4,6-PENTACN UNLABLED (97% CHEMICAL PURITY); 1,2,3,5,8-PENTACN UNLABLED; 1,2,3,4-TETRACHLORONAPHTHALENE UNLABLED; 1,2,4,5,7,8-HEXACN UNLABLED)
Japan - ENCS	Yes
Korea - KECL	No (1,2,3,6,7,8-HEXACN (CHEMICAL PURITY 97%) UNLABLED; 1,2,3,5,7,8-HEXACN UNLABLED; 1,2,3,4,5,6,7-HEPTACN UNLABLED; 1,2,3,5-TETRACN UNLABLED; 2,3,6,7-TETRACN UNLABLED; 1,5-DICN UNLABLED; 1,2,3,5,6,8-HEXACN UNLABLED; 1,4,5,8-TETRACN UNLABLED; 1,2,3,4,5-PENTACN UNLABLED; 1,2,3,4,5,8-HEXACN 97% CHEMICAL PURITY UNLABLED; 1,2,3,4,6-PENTACN UNLABLED (97% CHEMICAL PURITY); 1,2,3,5,8-PENTACN UNLABLED; 1,2,3,4-TETRACHLORONAPHTHALENE UNLABLED; 1,2,4,5,7,8-HEXACN UNLABLED; 2-chloronaphthalene)
New Zealand - NZIoC	No (hexachloronaphthalene; 1,2,3,6,7,8-HEXACN (CHEMICAL PURITY 97%) UNLABLED; octachloronaphthalene; pentachloronaphthalene; 1,2,3,5,7,8-HEXACN UNLABLED; 1,2,3,4,5,6,7-HEPTACN UNLABLED; 1,2,3,5-TETRACN UNLABLED; tetrachloronaphthalene; 2,3,6,7-TETRACN UNLABLED; trichloronaphthalene; 1,5-DICN UNLABLED; 1,2,3,5,6,8-HEXACN UNLABLED;

Continued...

## MONO-OCTA PCN NATIVE PAR SOLUTION UNLabeled 2000 NG/ML IN NONANE

National Inventory	Status
	1,4,5,8-TETRACN UNLabeled; 1,2,3,4,5-PENTACN UNLabeled; 1,2,3,4,5,8-HEXACN 97% CHEMICAL PURITY UNLabeled; 1,2,3,4,6-PENTACN UNLabeled (97% CHEMICAL PURITY); 1,2,3,5,8-PENTACN UNLabeled; 1,2,3,4-TETRACHLORONAPHTHALENE UNLabeled; 1,2,4,5,7,8-HEXACN UNLabeled; 2-chloronaphthalene)
Philippines - PICCS	No (hexachloronaphthalene; 1,2,3,6,7,8-HEXACN (CHEMICAL PURITY 97%) UNLabeled; octachloronaphthalene; 1,2,3,5,7,8-HEXACN UNLabeled; 1,2,3,4,5,6,7-HEPTACN UNLabeled; 1,2,3,5-TETRACN UNLabeled; tetrachloronaphthalene; 2,3,6,7-TETRACN UNLabeled; trichloronaphthalene; 1,5-DICN UNLabeled; 1,2,3,5,6,8-HEXACN UNLabeled; 1,4,5,8-TETRACN UNLabeled; 1,2,3,4,5-PENTACN UNLabeled; 1,2,3,4,5,8-HEXACN 97% CHEMICAL PURITY UNLabeled; 1,2,3,5,8-PENTACN UNLabeled; 1,2,3,4-TETRACHLORONAPHTHALENE UNLabeled; 1,2,4,5,7,8-HEXACN UNLabeled; 2-chloronaphthalene)
USA - TSCA	TSCA Inventory 'Active' substance(s) (n-nonane; hexachloronaphthalene; octachloronaphthalene; pentachloronaphthalene; tetrachloronaphthalene; trichloronaphthalene; 1,5-DICN UNLabeled; 2-chloronaphthalene); No (1,2,3,6,7,8-HEXACN (CHEMICAL PURITY 97%) UNLabeled; 1,2,3,5,7,8-HEXACN UNLabeled; 1,2,3,5-TETRACN UNLabeled; 2,3,6,7-TETRACN UNLabeled; 1,2,3,5,6,8-HEXACN UNLabeled; 1,4,5,8-TETRACN UNLabeled; 1,2,3,4,5-PENTACN UNLabeled; 1,2,3,4,5,8-HEXACN 97% CHEMICAL PURITY UNLabeled; 1,2,3,4,6-PENTACN UNLabeled (97% CHEMICAL PURITY); 1,2,3,5,8-PENTACN UNLabeled; 1,2,3,4-TETRACHLORONAPHTHALENE UNLabeled; 1,2,4,5,7,8-HEXACN UNLabeled)
Taiwan - TCSI	No (1,2,3,6,7,8-HEXACN (CHEMICAL PURITY 97%) UNLabeled; 1,2,3,5,7,8-HEXACN UNLabeled; 1,2,3,4,5,6,7-HEPTACN UNLabeled; 1,2,3,5-TETRACN UNLabeled; 2,3,6,7-TETRACN UNLabeled; 1,5-DICN UNLabeled; 1,2,3,5,6,8-HEXACN UNLabeled; 1,4,5,8-TETRACN UNLabeled; 1,2,3,4,5-PENTACN UNLabeled; 1,2,3,4,5,8-HEXACN 97% CHEMICAL PURITY UNLabeled; 1,2,3,4,6-PENTACN UNLabeled (97% CHEMICAL PURITY); 1,2,3,5,8-PENTACN UNLabeled; 1,2,4,5,7,8-HEXACN UNLabeled)
Mexico - INSQ	No (1,2,3,6,7,8-HEXACN (CHEMICAL PURITY 97%) UNLabeled; 1,2,3,5,7,8-HEXACN UNLabeled; 1,2,3,4,5,6,7-HEPTACN UNLabeled; 1,2,3,5-TETRACN UNLabeled; 2,3,6,7-TETRACN UNLabeled; 1,5-DICN UNLabeled; 1,2,3,5,6,8-HEXACN UNLabeled; 1,4,5,8-TETRACN UNLabeled; 1,2,3,4,5-PENTACN UNLabeled; 1,2,3,4,5,8-HEXACN 97% CHEMICAL PURITY UNLabeled; 1,2,3,4,6-PENTACN UNLabeled (97% CHEMICAL PURITY); 1,2,3,5,8-PENTACN UNLabeled; 1,2,3,4-TETRACHLORONAPHTHALENE UNLabeled; 1,2,4,5,7,8-HEXACN UNLabeled)
Vietnam - NCI	No (hexachloronaphthalene; 1,2,3,6,7,8-HEXACN (CHEMICAL PURITY 97%) UNLabeled; pentachloronaphthalene; 1,2,3,5,7,8-HEXACN UNLabeled; 1,2,3,4,5,6,7-HEPTACN UNLabeled; 1,2,3,5-TETRACN UNLabeled; 2,3,6,7-TETRACN UNLabeled; 1,2,3,5,6,8-HEXACN UNLabeled; 1,4,5,8-TETRACN UNLabeled; 1,2,3,4,5-PENTACN UNLabeled; 1,2,3,4,5,8-HEXACN 97% CHEMICAL PURITY UNLabeled; 1,2,3,4,6-PENTACN UNLabeled (97% CHEMICAL PURITY); 1,2,3,5,8-PENTACN UNLabeled; 1,2,4,5,7,8-HEXACN UNLabeled)
Russia - FBEPH	No (hexachloronaphthalene; 1,2,3,6,7,8-HEXACN (CHEMICAL PURITY 97%) UNLabeled; octachloronaphthalene; pentachloronaphthalene; 1,2,3,5,7,8-HEXACN UNLabeled; 1,2,3,4,5,6,7-HEPTACN UNLabeled; 1,2,3,5-TETRACN UNLabeled; tetrachloronaphthalene; 2,3,6,7-TETRACN UNLabeled; trichloronaphthalene; 1,5-DICN UNLabeled; 1,2,3,5,6,8-HEXACN UNLabeled; 1,4,5,8-TETRACN UNLabeled; 1,2,3,4,5-PENTACN UNLabeled; 1,2,3,4,5,8-HEXACN 97% CHEMICAL PURITY UNLabeled; 1,2,3,4,6-PENTACN UNLabeled (97% CHEMICAL PURITY); 1,2,3,5,8-PENTACN UNLabeled; 1,2,3,4-TETRACHLORONAPHTHALENE UNLabeled; 1,2,4,5,7,8-HEXACN UNLabeled; 2-chloronaphthalene)
UAE - Control List (Banned/Restricted Substances)	No (n-nonane; hexachloronaphthalene; 1,2,3,6,7,8-HEXACN (CHEMICAL PURITY 97%) UNLabeled; octachloronaphthalene; pentachloronaphthalene; 1,2,3,5,7,8-HEXACN UNLabeled; 1,2,3,4,5,6,7-HEPTACN UNLabeled; 1,2,3,5-TETRACN UNLabeled; tetrachloronaphthalene; 2,3,6,7-TETRACN UNLabeled; trichloronaphthalene; 1,5-DICN UNLabeled; 1,2,3,5,6,8-HEXACN UNLabeled; 1,4,5,8-TETRACN UNLabeled; 1,2,3,4,5-PENTACN UNLabeled; 1,2,3,4,5,8-HEXACN 97% CHEMICAL PURITY UNLabeled; 1,2,3,4,6-PENTACN UNLabeled (97% CHEMICAL PURITY); 1,2,3,5,8-PENTACN UNLabeled; 1,2,3,4-TETRACHLORONAPHTHALENE UNLabeled; 1,2,4,5,7,8-HEXACN UNLabeled; 2-chloronaphthalene)
<b>Legend:</b>	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.

## SECTION 16 Other information

Revision Date	26/11/2025
Initial Date	26/11/2025

## Other information

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

## Definitions and abbreviations

- PC - TWA: Permissible Concentration-Time Weighted Average
- PC - STEL: Permissible Concentration-Short Term Exposure Limit
- IARC: International Agency for Research on Cancer
- ACGIH: American Conference of Governmental Industrial Hygienists
- STEL: Short Term Exposure Limit
- TEEL: Temporary Emergency Exposure Limit
- IDLH: Immediately Dangerous to Life or Health Concentrations
- ES: Exposure Standard
- OSF: Odour Safety Factor
- NOAEL: No Observed Adverse Effect Level
- LOAEL: Lowest Observed Adverse Effect Level
- TLV: Threshold Limit Value
- LOD: Limit Of Detection
- OTV: Odour Threshold Value
- BCF: BioConcentration Factors
- BEI: Biological Exposure Index
- DNEL: Derived No-Effect Level
- PNEC: Predicted no-effect concentration
- MARPOL: International Convention for the Prevention of Pollution from Ships
- IMSBC: International Maritime Solid Bulk Cargoes Code
- IGC: International Gas Carrier Code
- IBC: International Bulk Chemical Code
- AIIC: Australian Inventory of Industrial Chemicals
- DSL: Domestic Substances List
- NDSL: Non-Domestic Substances List
- IECSC: Inventory of Existing Chemical Substance in China
- EINECS: European Inventory of Existing Commercial chemical Substances
- ELINCS: European List of Notified Chemical Substances
- NLP: No-Longer Polymers

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- ENCS: Existing and New Chemical Substances Inventory
- KECl: Korea Existing Chemicals Inventory
- NZIoC: New Zealand Inventory of Chemicals
- PICCS: Philippine Inventory of Chemicals and Chemical Substances
- TSCA: Toxic Substances Control Act
- TCSI: Taiwan Chemical Substance Inventory
- INSQ: Inventario Nacional de Sustancias Químicas
- NCI: National Chemical Inventory
- FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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