

Safety Data Sheet

according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 /

Rules and Regulations

Date of issue: 14/11/2014 Revision date: : Version: 1.0

ECN-5489-CS6

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

1.1. Product identifier

Product form : Mixtures

Product name. : PCN CALIBRATION SOLUTION CS6 (UNLABELED/13C10, 99%) IN NONANE

Product code : ECN-5489-CS6

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Industrial/Professional use spec : For professional use only.

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Cambridge Isotope Laboratories, Inc.

50 Frontage Road Andover, MA 01810

USA

USA: 1-800-322-1174 Int: 1-978-749-8000 <u>cilsales@isotope.com</u> www.isotope.com

Emergency telephone number

Emergency numbers:

Chemtrec: 1-800-424-9300 (24 hours) International: 1-202-483-7616 (24 hours)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

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
Aquatic Chronic 3 H412

Full text of H-phrases: see section 16

Classification according to Directive 67/548/EEC or 1999/45/EC

F; R11 Xn; R20 Xn; R65 R52/53

Full text of R-phrases: see section 16

Classification (GHS-US)

Flam. Liq. 3 H226 Skin Irrit. 2 H315 Eye Irrit. 2A H319 STOT SE 3 H336 Asp. Tox. 1 H304 Aquatic Acute 3 H402 Aquatic Chronic 3 H412

Adverse physicochemical, human health and environmental effects

Central Nervous System.

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2.2. **Label elements**

Labeling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)

Signal word (CLP)







: Danger

Hazardous ingredients : N-NONANE UNLABELED

H226 - Flammable liquid and vapor Hazard statements (CLP)

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

H412 - Harmful to aquatic life with long lasting effects

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No Precautionary statements (CLP)

P233 - Keep container tightly closed

P240 - Ground/bond container and receiving equipment

P241 - Use explosion-proof electrical, lighting, ventilating equipment

P261 - Avoid breathing fume, mist, spray, vapors P264 - Wash both hands thoroughly after handling P271 - Use only outdoors or in a well-ventilated area

P273 - Avoid release to the environment

GHS-US labeling

Signal word (GHS-US)

Hazard pictograms (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

H336 - May cause drowsiness or dizziness

H402 - Harmful to aquatic life

H412 - Harmful to aquatic life with long lasting effects

P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking Precautionary statements (GHS-US)

P233 - Keep container tightly closed

P240 - Ground/bond container and receiving equipment

P241 - Use explosion-proof electrical, lighting, ventilating equipment

P242 - Use only non-sparking tools

P243 - Take precautionary measures against static discharge

P261 - Avoid breathing fume, mist, spray, vapors P264 - Wash Both hands thoroughly after handling P271 - Use only outdoors or in a well-ventilated area

P273 - Avoid release to the environment

P280 - Wear eye protection, face protection, protective clothing, protective gloves

P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

P302+P352 - IF ON SKIN: Wash with plenty of soap and water

P303+P361+P353 - IF ON SKIN (or hair): Řemove/Take off immediately all contaminated

clothing. Rinse skin with water/shower P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position 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/doctor/physician if you feel unwell

P331 - If swallowed, 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

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P370+P378 - In case of fire: Use Alcohol resistant foam., Carbon dioxide., Dry chemical., Water spray for extinction

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

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Directive 67/548/EEC
N-NONANE UNLABELED	(CAS No) 111-84-2 (EC no) 203-913-4	98.07145086	R10 Xn; R20 Xn; R65 R67
ISOOCTANE UNLABELED	(CAS No) 540-84-1 (EC no) 208-759-1 (EC index no) 601-009-00-8	1.92851777	F; R11 Xi; R38 N; R50/53 R67
1,2,3,4-TCDD	(CAS No) 1746-01-6	0.00000348	Muta.Cat.3; R68 T+; R27 Xn; R65 R53
1,2,3,4-TETRACHLORONAPHTHALENE UNLABELED	(CAS No) 20020-02-4 (Unlabeled)	0.00000278	Xn; R22
1,2,3,5,7-PENTACN UNLABELED	(CAS No) 53555-65-0 (Unlabeled) (EC no) 215-320-8 (EC index no) 602-041-00-5	0.00000278	Xn; R20/21 Xi; R36/37/38 N; R50/53
1,2,3,4,6,7-HEXACN UNLABELED	(CAS No) 103426-96-6 (Unlabeled) (EC no) 215-320-8 (EC index no) 602-041-00-5	0.00000278	Xn; R20/21 Xi; R36/37/38 N; R50/53
1,2,3,5,6,7-HEXACN UNLABELED	(CAS No) 103426-97-7 (Unlabeled) (EC no) 215-320-8 (EC index no) 602-041-00-5	0.00000278	Xn; R20/21 Xi; R36/37/38 N; R50/53
1,2,3,5,6,8-HEXACN UNLABELED	(CAS No) 103426-95-5 (Unlabeled) (EC no) 215-320-8 (EC index no) 602-041-00-5	0.00000278	Xn; R20/21 Xi; R36/37/38 N; R50/53
1,2,3,4,5,6,7-HEPTACN UNLABELED	(CAS No) 58863-14-2 (Unlabeled) (EC no) 215-320-8 (EC index no) 602-041-00-5	0.00000278	Xn; R20/21 Xi; R36/37/38 N; R50/53
OCTACHLORONAPHTHALENE UNLABELED	(CAS No) 2234-13-1 (Unlabeled) (EC no) 218-778-7	0.00000278	Xn; R22 R53
1,2,3,4,5,6,7-HEPTACN (13C10, 98%)	(CAS No) 58863-14-2 (Unlabeled) (EC no) 215-320-8 (EC index no) 602-041-00-5	0.00000139	Xn; R20/21 Xi; R36/37/38 N; R50/53
1,2,3,4,5,7-HEXACN (13C10, 99%)	(CAS No) 67922-27-4 (Unlabeled)	0.00000139	Xn; R22 Xi; R41 Xi; R38 N; R50/53 R48
1,2,3,4-TETRACN (13C10, 99%)	(CAS No) 20020-02-4 (Unlabeled)	0.00000139	Xn; R22
1,2,3,5,7-PENTACN (13C10, 99%)	(CAS No) 53555-65-0 (Unlabeled) (EC no) 215-320-8 (EC index no) 602-041-00-5	0.00000139	Xn; R20/21 Xi; R36/37/38 N; R50/53

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1,2,3,5,6,7-HEXACN (13C10, 98%)	(CAS No) 103426-97-7 (Unlabeled) (EC no) 215-320-8 (EC index no) 602-041-00-5	0.00000139	Xn; R20/21 Xi; R36/37/38 N; R50/53
OCTACN (13C10, 99%)	(CAS No) 2234-13-1 (Unlabeled) (EC no) 218-778-7	0.00000139	Xn; R22 R53
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
N-NONANE UNLABELED	(CAS No) 111-84-2 (EC no) 203-913-4	98.07145086	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
ISOOCTANE UNLABELED	(CAS No) 540-84-1 (EC no) 208-759-1 (EC index no) 601-009-00-8	1.92851777	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
1,2,3,4-TCDD	(CAS No) 1746-01-6	0.00000348	Acute Tox. 1 (Dermal), H310 Muta. 2, H341 STOT SE 2, H371 Asp. Tox. 1, H304 Aquatic Chronic 4, H413
1,2,3,4-TETRACHLORONAPHTHALENE UNLABELED	(CAS No) 20020-02-4 (Unlabeled)	0.00000278	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Aquatic Chronic 4, H413
1,2,3,5,7-PENTACN UNLABELED	(CAS No) 53555-65-0 (Unlabeled) (EC no) 215-320-8 (EC index no) 602-041-00-5	0.00000278	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT RE 1, H372 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
1,2,3,4,6,7-HEXACN UNLABELED	(CAS No) 103426-96-6 (Unlabeled) (EC no) 215-320-8 (EC index no) 602-041-00-5	0.0000278	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT RE 1, H372 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
1,2,3,5,6,7-HEXACN UNLABELED	(CAS No) 103426-97-7 (Unlabeled) (EC no) 215-320-8 (EC index no) 602-041-00-5	0.00000278	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 1, H370 STOT SE 2, H371 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
1,2,3,5,6,8-HEXACN UNLABELED	(CAS No) 103426-95-5 (Unlabeled) (EC no) 215-320-8 (EC index no) 602-041-00-5	0.0000278	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT RE 1, H372 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
1,2,3,4,5,6,7-HEPTACN UNLABELED	(CAS No) 58863-14-2 (Unlabeled) (EC no) 215-320-8 (EC index no) 602-041-00-5	0.00000278	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT RE 1, H372 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
OCTACHLORONAPHTHALENE UNLABELED	(CAS No) 2234-13-1 (Unlabeled) (EC no) 218-778-7	0.00000278	Acute Tox. 4 (Oral), H302 Aquatic Chronic 4, H413
1,2,3,4,5,6,7-HEPTACN (13C10, 98%)	(CAS No) 58863-14-2 (Unlabeled) (EC no) 215-320-8 (EC index no) 602-041-00-5	0.0000139	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT RE 1, H372 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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1,2,3,4,5,7-HEXACN (13C10, 99%)	(CAS No) 67922-27-4 (Unlabeled)	0.00000139	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
1,2,3,4-TETRACN (13C10, 99%)	(CAS No) 20020-02-4 (Unlabeled)	0.00000139	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Aquatic Chronic 4, H413
1,2,3,5,7-PENTACN (13C10, 99%)	(CAS No) 53555-65-0 (Unlabeled) (EC no) 215-320-8 (EC index no) 602-041-00-5	0.00000139	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT RE 1, H372 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
1,2,3,5,6,7-HEXACN (13C10, 98%)	(CAS No) 103426-97-7 (Unlabeled) (EC no) 215-320-8 (EC index no) 602-041-00-5	0.00000139	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT RE 1, H372 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
OCTACN (13C10, 99%)	(CAS No) 2234-13-1 (Unlabeled) (EC no) 218-778-7	0.00000139	Acute Tox. 4 (Oral), H302 Aquatic Chronic 4, H413

Name	Product identifier	%	Classification (GHS-US)
N-NONANE UNLABELED	(CAS No) 111-84-2	98.07145086	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H336 Asp. Tox. 1, H304
ISOOCTANE UNLABELED	(CAS No) 540-84-1	1.92851777	Flam. Liq. 1, H224 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
1,2,3,4-TCDD	(CAS No) 1746-01-6	0.00000348	Acute Tox. 1 (Dermal), H310 STOT SE 2, H371 Asp. Tox. 1, H304

Full text of R-, H- and EUH-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Move out of dangerous area. Consult a physician and show this safety data sheet.

First-aid measures after inhalation : Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON

CENTER/doctor/physician if you feel unwell.

First-aid measures after skin contact : Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water.

Wash contaminated clothing before reuse.

First-aid measures after eye contact : Immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical

attention.

First-aid measures after ingestion : Immediately call a POISON CENTER or doctor/physician.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : May cause drowsiness or dizziness.

Symptoms/injuries after skin contact : Causes skin irritation.

Symptoms/injuries after eye contact : Causes eye irritation.

Symptoms/injuries after ingestion : May be fatal if swallowed and enters airways.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

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SECTION 5: Firefighting measures

5.1. Extinguishing media

suitable extinguishing media

: For small fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Highly flammable liquid and vapor.

Explosion hazard : May form flammable/explosive vapor-air mixture. Reactivity : Vapors may form explosive mixture with air.

5.3. Advice for firefighters

Firefighting instructions : Use water spray to cool unopened containers.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures

: Remove ignition sources. Use special care to avoid static electric charges. No naked lights. No smoking.

6.1.1. For non-emergency personnel

Emergency procedures

: Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment

: Contain spillage, then collect with non-combustible absorbent material. Disposal should be in accordance with applicable Federal, State and local regulations.

6.4. Reference to other sections

No additional information available

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 naked lights. No smoking. Use only non-sparking tools. Use only outdoors or in a well-

ventilated area.

Hygiene measures

: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

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.

Storage conditions : Store at room temperature away from light and moisture.

Incompatible materials : Heat sources

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

PCN CALIBRATION SOLUTION	ON CS6 (UNLABELED/13C10, 99%) IN NONANE	
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	200.000000000 ppm Central Nervous System impairment.
N-NONANE UNLABELED (11	1-84-2)	
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	200.0000000000 ppm Central Nervous System impairment.

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1,2,3,5,7-PENTACN UNLABELED (53555-65-0 (Unlabeled))		
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m³)	0.5000000000 mg/m³ Skin
USA OSHA	OSHA PEL (TWA) (mg/m3)	0.5000000000 mg/m³ Skin

1,2,3,4,6,7-HEXACN UNLABE	ELED (103426-96-6 (Unlabeled))	
USA OSHA	OSHA PEL (TWA) (mg/m3)	0.200000000 mg/m³ Skin

1,2,3,5,7-PENTACN (13C10, 99%) (53555-65-0 (Unlabeled))		
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m³)	0.5000000000 mg/m³ Skin
USA OSHA	OSHA PEL (TWA) (mg/m3)	0.500000000 mg/m³ Skin

8.2. Exposure controls

Personal protective equipment : Protective clothing. Protective goggles. Self-contained breathing apparatus. Gloves.



Hand protection : Wear suitable protective clothing and gloves.

Eye protection : Wear safety glasses with side shields (or goggles) and a face shield.

Skin and body protection : Wear suitable protective clothing.

Respiratory protection : Where exposure through inhalation may occur from use, respiratory protection equipment is

recommended. Wear respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Liquid.
Molecular mass : 128.3

Color No data available. Odor : No data available Odor threshold : No data available : No data available рΗ Relative evaporation rate (butyl acetate=1) : No data available Melting point : -53 °C (- 63 °F) - lit Freezing point : No data available : 151 °C (304 °F) - lit Boiling point

Flash point : 31.0 °C (87.8 °F) - closed cup

Self ignition temperature : 205 °C (401 °F)

Decomposition temperature : No data available

Flammability (solid, gas) : Highly flammable liquid and vapor

Vapor pressure : 12.4 hPa (9.3 mmHg) at 37.7 °C (99.9 °F)

Relative vapor density at 20 °C : No data available
Relative density : No data available
Solubility : Water: 0 %
Log Pow : 5.65

Log Kow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidizing properties : No data available
Explosive limits : 0.87 - 2.9 % (V)

9.2. Other information

No additional information available

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SECTION 10: Stability and reactivity	
10.1. Reactivity	
Vapors may form explosive mixture with air.	
10.2. Chemical stability	
See storage and expiration date on CoA.	
10.3. Possibility of hazardous reactions	
No additional information available	
10.4. Conditions to avoid	
Open flame. Direct sunlight.	
10.5. Incompatible materials	
Strong oxidizing agents.	
10.6. Hazardous decomposition products	
May release flammable gases.	
SECTION 11: Toxicological information	on
11.1. Information on toxicological effects	: Harmful if inhaled.
PCN CALIBRATION SOLUTION CS6 (UNLABE LC50 inhalation rat (ppm)	3200 ppm/4h
ATE (gases)	3200.000 ppmV/4h
ATE (vapors)	11.000 mg/l/4h
ATE (dust, mist)	1.500 mg/l/4h
N-NONANE UNLABELED (111-84-2)	
LC50 inhalation rat (ppm)	3200 ppm/4h
ATE (dust, mist)	1.500 mg/l/4h
1,2,3,4-TETRACHLORONAPHTHALENE UNLA	BELED (20020-02-4 (Unlabeled))
ATE (oral)	500.000 mg/kg body weight
1,2,3,5,7-PENTACN UNLABELED (53555-65-0	(Unlabeled))
ATE (oral)	500.000 mg/kg body weight
1,2,3,4,6,7-HEXACN UNLABELED (103426-96-	6 (Unlabeled))
ATE (oral)	500.000 mg/kg body weight
1,2,3,5,6,7-HEXACN UNLABELED (103426-97-	7 (Unlabeled))
ATE (oral)	500.000 mg/kg body weight
1,2,3,5,6,8-HEXACN UNLABELED (103426-95-	5 (Unlabeled))
ATE (oral)	500.000 mg/kg body weight
1,2,3,4,5,6,7-HEPTACN (13C10, 98%) (58863-1	4-2 (Unlabeled))
ATE (oral)	500.000 mg/kg body weight
OCTACHLORONAPHTHALENE UNLABELED	(2234-13-1 (Unlabeled))
ATE (oral)	500.000 mg/kg body weight
1,2,3,4,5,6,7-HEPTACN UNLABELED (58863-1	4-2 (Unlabeled))
ATE (oral)	500.000 mg/kg body weight
1,2,3,4-TETRACN (13C10, 99%) (20020-02-4 (U	Inlabeled))
ATE (oral)	500.000 mg/kg body weight
1,2,3,5,7-PENTACN (13C10, 99%) (53555-65-0	(Unlabeled))
ATE (oral)	500.000 mg/kg body weight
1,2,3,5,6,7-HEXACN (13C10, 98%) (103426-97-	7 (Unlabeled))
ATE (oral)	500.000 mg/kg body weight
1,2,3,4,5,7-HEXACN (13C10, 99%) (67922-27-4	(Unlabeled))
ATE (oral)	500.000 mg/kg body weight

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OCTACN (13C10, 99%) (2234-13-1 (Unlabele	ed))
ATE (oral)	500.000 mg/kg body weight
1,2,3,4-TCDD (1746-01-6)	
LD50 oral	0.013 mg/kg
LD50 dermal	0.275 mg/kg
ATE (dermal)	5.000 mg/kg body weight
Skin corrosion/irritation	: Causes skin irritation.
	Skin - rat - Skin irritation - Draize test
Serious eye damage/irritation	: Causes serious eye irritation.
	No data available
Respiratory or skin sensitization	: Not available
	No data available
Germ cell mutagenicity	: Not available
Carcinogenicity	: Not classified
Reproductive toxicity	: Not available
Specific target organ toxicity (single exposure)	: May cause drowsiness or dizziness.
	May cause drowsiness or dizziness.
Specific target organ toxicity (repeated	: Not classified
exposure)	No data available
Aspiration hazard	: May be fatal if swallowed and enters airways.
Potential Adverse human health effects and symptoms	: The chemical, physical, and toxicological properties have not been thoroughly investigated.
Symptoms/injuries after inhalation	: May cause drowsiness or dizziness.
Symptoms/injuries after skin contact	: Causes skin irritation.
Symptoms/injuries after eye contact	: Causes eye irritation.
Symptoms/injuries after ingestion	: May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - water : Harmful to aquatic life with long lasting effects.

OCTACHLORONAPHTHALENE UNLABELED (2234-13-1 (Unlabeled))	
LC50 fish 1	> 600 mg/l Lepomis macrochirus (Bluegill) - 96 h
EC50 Daphnia 1	> 530 mg/l Daphnia magna (Water flea) - 48 h
ErC50 (algae)	> 500 mg/l Pseudokirchneriella subcapitata (green algae) - 72 h
NOEC (chronic)	560 mg/l Cyprinodon variegatus (sheepshead minnow) - 96 h
OCTACN (13C10, 99%) (2234-13-1 (Unlabeled))	

OCTACN (13C10, 99%) (2234-13-1 (Unlabeled))	
LC50 fish 1	> 600 mg/l Lepomis macrochirus (Bluegill) - 96 h
EC50 Daphnia 1	> 530 mg/l Daphnia magna (Water flea) - 48 h
ErC50 (algae)	> 500 mg/l Pseudokirchneriella subcapitata (green algae) - 72 h
NOEC (chronic)	560 mg/l Cyprinodon variegatus (sheepshead minnow) - 96 h

12.2. Persistence and degradability

,	
PCN CALIBRATION SOLUTION CS6 (UNLABELED/13C10, 99%) IN NONANE	
Persistence and degradability	May cause long-term adverse effects in the environment.
N-NONANE UNLABELED (111-84-2)	
Persistence and degradability	Not available.
1,2,3,4-TETRACHLORONAPHTHALENE UNLABELED (20020-02-4 (Unlabeled))	
Persistence and degradability	Not available.

1,2,3,5,7-PENTACN UNLABELED (53555-65-0)	(Unlabeled))
Persistence and degradability	No data available.

1,2,3,4,6,7-HEXACN UNLABELED (103426-96-6 (Unlabeled))	
Persistence and degradability	No data available.

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1,2,3,5,6,7-HEXACN UNLABELED (103426-97-	
Persistence and degradability	No data available.
1,2,3,5,6,8-HEXACN UNLABELED (103426-95-	5 (Unlabeled))
Persistence and degradability	No data available.
1,2,3,4,5,6,7-HEPTACN (13C10, 98%) (58863-1	4-2 (Unlabeled))
Persistence and degradability	No data available.
OCTACHLORONAPHTHALENE UNLABELED	
Persistence and degradability	Not available.
ISOOCTANE UNLABELED (540-84-1)	
Persistence and degradability	Not available.
1,2,3,4,5,6,7-HEPTACN UNLABELED (58863-1	4-2 ((Intabalad))
Persistence and degradability	No data available.
•	
1,2,3,4-TETRACN (13C10, 99%) (20020-02-4 (U	
Persistence and degradability	Not available.
1,2,3,5,7-PENTACN (13C10, 99%) (53555-65-0	(Unlabeled))
Persistence and degradability	No data available.
1,2,3,5,6,7-HEXACN (13C10, 98%) (103426-97-	7 (Unisheled))
Persistence and degradability	No data available.
1,2,3,4,5,7-HEXACN (13C10, 99%) (67922-27-4	
Persistence and degradability	Not available.
OCTACN (13C10, 99%) (2234-13-1 (Unlabeled	
Persistence and degradability	Not available.
·	
12.3. Bioaccumulative potential	
PCN CALIBRATION SOLUTION CS6 (UNLABI	
Log Pow	5.65
·	
Log Pow	5.65
Log Pow Bioaccumulative potential	5.65
Log Pow Bioaccumulative potential N-NONANE UNLABELED (111-84-2)	5.65 Indication of bioaccumulation.
Log Pow Bioaccumulative potential N-NONANE UNLABELED (111-84-2) Log Pow Bioaccumulative potential	5.65 Indication of bioaccumulation. 5.65 Indication of bioaccumulation.
Log Pow Bioaccumulative potential N-NONANE UNLABELED (111-84-2) Log Pow Bioaccumulative potential 1,2,3,4-TETRACHLORONAPHTHALENE UNLA	5.65 Indication of bioaccumulation. 5.65 Indication of bioaccumulation. ABELED (20020-02-4 (Unlabeled))
Log Pow Bioaccumulative potential N-NONANE UNLABELED (111-84-2) Log Pow Bioaccumulative potential 1,2,3,4-TETRACHLORONAPHTHALENE UNLABERT (1990)	5.65 Indication of bioaccumulation. 5.65 Indication of bioaccumulation. ABELED (20020-02-4 (Unlabeled)) 5.314
Log Pow Bioaccumulative potential N-NONANE UNLABELED (111-84-2) Log Pow Bioaccumulative potential 1,2,3,4-TETRACHLORONAPHTHALENE UNLA Log Pow Bioaccumulative potential	5.65 Indication of bioaccumulation. 5.65 Indication of bioaccumulation. ABELED (20020-02-4 (Unlabeled)) 5.314 Not available.
Log Pow Bioaccumulative potential N-NONANE UNLABELED (111-84-2) Log Pow Bioaccumulative potential 1,2,3,4-TETRACHLORONAPHTHALENE UNLA Log Pow Bioaccumulative potential 1,2,3,5,7-PENTACN UNLABELED (53555-65-0	5.65 Indication of bioaccumulation. 5.65 Indication of bioaccumulation. ABELED (20020-02-4 (Unlabeled)) 5.314 Not available. (Unlabeled))
Log Pow Bioaccumulative potential N-NONANE UNLABELED (111-84-2) Log Pow Bioaccumulative potential 1,2,3,4-TETRACHLORONAPHTHALENE UNLA Log Pow Bioaccumulative potential 1,2,3,5,7-PENTACN UNLABELED (53555-65-0 Log Pow	5.65 Indication of bioaccumulation. 5.65 Indication of bioaccumulation. ABELED (20020-02-4 (Unlabeled)) 5.314 Not available. (Unlabeled)) 6.88
Log Pow Bioaccumulative potential N-NONANE UNLABELED (111-84-2) Log Pow Bioaccumulative potential 1,2,3,4-TETRACHLORONAPHTHALENE UNLA Log Pow Bioaccumulative potential 1,2,3,5,7-PENTACN UNLABELED (53555-65-0	5.65 Indication of bioaccumulation. 5.65 Indication of bioaccumulation. ABELED (20020-02-4 (Unlabeled)) 5.314 Not available. (Unlabeled))
Log Pow Bioaccumulative potential N-NONANE UNLABELED (111-84-2) Log Pow Bioaccumulative potential 1,2,3,4-TETRACHLORONAPHTHALENE UNLA Log Pow Bioaccumulative potential 1,2,3,5,7-PENTACN UNLABELED (53555-65-0 Log Pow	5.65 Indication of bioaccumulation. 5.65 Indication of bioaccumulation. ABELED (20020-02-4 (Unlabeled)) 5.314 Not available. (Unlabeled)) 6.88 No data available.
Log Pow Bioaccumulative potential N-NONANE UNLABELED (111-84-2) Log Pow Bioaccumulative potential 1,2,3,4-TETRACHLORONAPHTHALENE UNLA Log Pow Bioaccumulative potential 1,2,3,5,7-PENTACN UNLABELED (53555-65-0 Log Pow Bioaccumulative potential 1,2,3,4,6,7-HEXACN UNLABELED (103426-96-Log Pow	5.65 Indication of bioaccumulation. 5.65 Indication of bioaccumulation. ABELED (20020-02-4 (Unlabeled)) 5.314 Not available. (Unlabeled)) 6.88 No data available. 6 (Unlabeled)) 6.88
Log Pow Bioaccumulative potential N-NONANE UNLABELED (111-84-2) Log Pow Bioaccumulative potential 1,2,3,4-TETRACHLORONAPHTHALENE UNLA Log Pow Bioaccumulative potential 1,2,3,5,7-PENTACN UNLABELED (53555-65-0 Log Pow Bioaccumulative potential 1,2,3,4,6,7-HEXACN UNLABELED (103426-96-	5.65 Indication of bioaccumulation. 5.65 Indication of bioaccumulation. ABELED (20020-02-4 (Unlabeled)) 5.314 Not available. (Unlabeled)) 6.88 No data available.
Log Pow Bioaccumulative potential N-NONANE UNLABELED (111-84-2) Log Pow Bioaccumulative potential 1,2,3,4-TETRACHLORONAPHTHALENE UNLA Log Pow Bioaccumulative potential 1,2,3,5,7-PENTACN UNLABELED (53555-65-0 Log Pow Bioaccumulative potential 1,2,3,4,6,7-HEXACN UNLABELED (103426-96- Log Pow Bioaccumulative potential	5.65 Indication of bioaccumulation. 5.65 Indication of bioaccumulation. ABELED (20020-02-4 (Unlabeled)) 5.314 Not available. (Unlabeled)) 6.88 No data available. 6 (Unlabeled)) 6.88 No data available.
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Log Pow Bioaccumulative potential N-NONANE UNLABELED (111-84-2) Log Pow Bioaccumulative potential 1,2,3,4-TETRACHLORONAPHTHALENE UNLATED (12,3,5,7-PENTACN UNLABELED (53555-65-0) Log Pow Bioaccumulative potential 1,2,3,4,6,7-HEXACN UNLABELED (103426-96-1) Log Pow Bioaccumulative potential 1,2,3,5,6,7-HEXACN UNLABELED (103426-97-1) Log Pow Bioaccumulative potential 1,2,3,5,6,8-HEXACN UNLABELED (103426-97-1) Log Pow Bioaccumulative potential 1,2,3,5,6,8-HEXACN UNLABELED (103426-95-1) Log Pow Bioaccumulative potential 1,2,3,5,6,8-HEXACN UNLABELED (103426-95-1) Log Pow Bioaccumulative potential	5.65 Indication of bioaccumulation. 5.65 Indication of bioaccumulation. ABELED (20020-02-4 (Unlabeled)) 5.314 Not available. (Unlabeled)) 6.88 No data available. 6 (Unlabeled)) 6.88 No data available. 7 (Unlabeled)) 6.88 No data available. 5 (Unlabeled)) 6.88 No data available. 5 (Unlabeled)) 6.88 No data available.
Log Pow Bioaccumulative potential N-NONANE UNLABELED (111-84-2) Log Pow Bioaccumulative potential 1,2,3,4-TETRACHLORONAPHTHALENE UNLA Log Pow Bioaccumulative potential 1,2,3,5,7-PENTACN UNLABELED (53555-65-0 Log Pow Bioaccumulative potential 1,2,3,4,6,7-HEXACN UNLABELED (103426-96- Log Pow Bioaccumulative potential 1,2,3,5,6,7-HEXACN UNLABELED (103426-97- Log Pow Bioaccumulative potential 1,2,3,5,6,8-HEXACN UNLABELED (103426-97- Log Pow Bioaccumulative potential	5.65 Indication of bioaccumulation. 5.65 Indication of bioaccumulation. ABELED (20020-02-4 (Unlabeled)) 5.314 Not available. (Unlabeled)) 6.88 No data available. 6 (Unlabeled)) 6.88 No data available. 7 (Unlabeled)) 6.88 No data available. 5 (Unlabeled)) 6.88 No data available. 5 (Unlabeled)) 6.88 No data available.
Log Pow Bioaccumulative potential N-NONANE UNLABELED (111-84-2) Log Pow Bioaccumulative potential 1,2,3,4-TETRACHLORONAPHTHALENE UNLA Log Pow Bioaccumulative potential 1,2,3,5,7-PENTACN UNLABELED (53555-65-0 Log Pow Bioaccumulative potential 1,2,3,4,6,7-HEXACN UNLABELED (103426-96- Log Pow Bioaccumulative potential 1,2,3,5,6,7-HEXACN UNLABELED (103426-97- Log Pow Bioaccumulative potential 1,2,3,5,6,8-HEXACN UNLABELED (103426-95- Log Pow Bioaccumulative potential 1,2,3,5,6,8-HEXACN UNLABELED (103426-95- Log Pow Bioaccumulative potential 1,2,3,4,5,6,7-HEPTACN (13C10, 98%) (58863-1 Bioaccumulative potential	5.65 Indication of bioaccumulation. 5.65 Indication of bioaccumulation. 5.65 Indication of bioaccumulation. ABELED (20020-02-4 (Unlabeled)) 5.314 Not available. (Unlabeled)) 6.88 No data available. 6 (Unlabeled)) 6.88 No data available. 7 (Unlabeled)) 6.88 No data available. 5 (Unlabeled)) 6.88 No data available. 5 (Unlabeled)) 6.88 No data available. 6.88 No data available. 7 (Unlabeled)) 6.88 No data available. 8 (Unlabeled)) 9 (Unlabeled)) 1 (Unlabeled)) 2 (Unlabeled)) 3 (Unlabeled)) 3 (Unlabeled)) 4 (Unlabeled)) 5 (Unlabeled)) 6 (Unlabeled)) 7 (Unlabeled)) 8 (Unlabeled)) 8 (Unlabeled)) 9 (Unlabeled) 9 (Unla
Log Pow Bioaccumulative potential N-NONANE UNLABELED (111-84-2) Log Pow Bioaccumulative potential 1,2,3,4-TETRACHLORONAPHTHALENE UNLATED (12,3,5,7-PENTACN UNLABELED (53555-65-0) Log Pow Bioaccumulative potential 1,2,3,4,6,7-HEXACN UNLABELED (103426-96-1) Log Pow Bioaccumulative potential 1,2,3,5,6,7-HEXACN UNLABELED (103426-97-1) Log Pow Bioaccumulative potential 1,2,3,5,6,8-HEXACN UNLABELED (103426-97-1) Log Pow Bioaccumulative potential 1,2,3,5,6,8-HEXACN UNLABELED (103426-95-1) Log Pow Bioaccumulative potential 1,2,3,5,6,8-HEXACN UNLABELED (103426-95-1) Log Pow Bioaccumulative potential	5.65 Indication of bioaccumulation. 5.65 Indication of bioaccumulation. 5.65 Indication of bioaccumulation. ABELED (20020-02-4 (Unlabeled)) 5.314 Not available. (Unlabeled)) 6.88 No data available. 6 (Unlabeled)) 6.88 No data available. 7 (Unlabeled)) 6.88 No data available. 5 (Unlabeled)) 6.88 No data available. 5 (Unlabeled)) 6.88 No data available. 6.88 No data available. 7 (Unlabeled)) 6.88 No data available. 8 (Unlabeled)) 9 (Unlabeled)) 1 (Unlabeled)) 2 (Unlabeled)) 3 (Unlabeled)) 3 (Unlabeled)) 4 (Unlabeled)) 5 (Unlabeled)) 6 (Unlabeled)) 7 (Unlabeled)) 8 (Unlabeled)) 8 (Unlabeled)) 9 (Unlabeled) 9 (Unla
Log Pow Bioaccumulative potential N-NONANE UNLABELED (111-84-2) Log Pow Bioaccumulative potential 1,2,3,4-TETRACHLORONAPHTHALENE UNLA Log Pow Bioaccumulative potential 1,2,3,5,7-PENTACN UNLABELED (53555-65-0 Log Pow Bioaccumulative potential 1,2,3,4,6,7-HEXACN UNLABELED (103426-96- Log Pow Bioaccumulative potential 1,2,3,5,6,7-HEXACN UNLABELED (103426-97- Log Pow Bioaccumulative potential 1,2,3,5,6,8-HEXACN UNLABELED (103426-95- Log Pow Bioaccumulative potential 1,2,3,5,6,7-HEPTACN (13C10, 98%) (58863-1 Bioaccumulative potential	5.65 Indication of bioaccumulation. 5.65 Indication of bioaccumulation. ABELED (20020-02-4 (Unlabeled)) 5.314 Not available. (Unlabeled)) 6.88 No data available. 6 (Unlabeled)) 6.88 No data available. 7 (Unlabeled)) 6.88 No data available. 5 (Unlabeled)) 6.88 No data available. 7 (Unlabeled)) 6.88 No data available. 5 (Unlabeled)) 6.88 No data available.

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according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Not available Not availabl	ISOOCTANE UNLABELED (540-84-1)	
1,2,3,4,5,6,7-HEPTACN UNLABELED (8985-14-2 (Unlabeled)) Log Pow 6.88 Bloaccumulative potential No data available. 1,2,3,4-TETRACN (13C10, 99%) (20020-02-4 (Unlabeled)) Log Pow 5.314 Bloaccumulative potential No data available. 1,2,3,5,7-PENTACN (13C10, 99%) (63555-65-4 (Unlabeled)) Bloaccumulative potential No data available. 1,2,3,5,6-THEXACN (13C10, 99%) (103426-97-7 (Unlabeled)) Bloaccumulative potential No data available. 1,2,3,5,6-THEXACN (13C10, 99%) (103426-97-7 (Unlabeled)) Bloaccumulative potential No data available. 1,2,3,5,6-THEXACN (13C10, 99%) (103426-97-7 (Unlabeled)) Bloaccumulative potential No data available. OCTACN (13C10, 99%) (2234-13-1 (Unlabeled)) Bloaccumulative potential Not available. Not available. PCN CALIBRATION SOLUTION CS6 (UNLABELED/13C10, 99%) IN NONANE Ecology - soil Not available. NONANE UNLABELED (111-84-2) Ecology - soil Not available. NONANE UNLABELED (111-84-2) Ecology - soil Not available. 1,2,3,5,7-PENTACN UNLABELED (35555-65-0 (Unlabeled)) Ecology - soil No data available. 1,2,3,6,7-HEXACN UNLABELED (103426-96-5 (Unlabeled)) Ecology - soil No data available. 1,2,3,6,7-HEXACN UNLABELED (103426-96-5 (Unlabeled)) Ecology - soil No data available. 1,2,3,5,7-HEXACN UNLABELED (103426-96-5 (Unlabeled)) Ecology - soil No data available. 1,2,3,6,7-HEXACN UNLABELED (103426-96-5 (Unlabeled)) Ecology - soil No data available. 1,2,3,4,5,6,7-HEXACN UNLABELED (103426-96-5 (Unlabeled)) Ecology - soil No data available. 1,2,3,4,5,6,7-HEYACN UNLABELED (103426-97-7 (Unlabeled)) Ecology - soil No data available. 1,2,3,4,5,7-HEPTACN UNLABELED (38853-14-2 (Unlabeled)) Ecology - soil No data available. 1,2,3,4,5,7-HEPTACN UNLABELED (38853-14-2 (Unlabeled)) Ecology - soil No data available. 1,2,3,4,5,7-HEPTACN (13C10, 99%) (59555-65-0 (Unlabeled)) Ecology - soil No data available. 1,2,3,4,5,7-HEYACN (13C10, 99%) (59555-65-0 (Unlabeled)) Ecology - soil No data available. 1,2,3,5,7-PENTACN (13C10, 99%) (59555-65-0 (Unlabeled)) Ecology - soil No data available. 1,2,3,5,7-PEN	` '	Not available
Log Pow 6.88	·	
Silocacumulative potential No data available		
1,2,3,4-TETRACN (13C10, 99%) (2002-02-4 (Unlabeled)) Log Pow		
Log Pow 5.314 Bioaccumulative potential Not available. 1,2,3,5,7-PENTACN (13C10, 99%) (3355-85-0 (Unlabeled)) Bioaccumulative potential No data available. 1,2,3,6,7-HEXACN (13C10, 98%) (103426-97-7 (Unlabeled)) Bioaccumulative potential Not available. 1,2,3,4,5,7-HEXACN (13C10, 99%) (67922-27-4 (Unlabeled)) Bioaccumulative potential Not available. 1,2,3,4,5,7-HEXACN (13C10, 99%) (67922-27-4 (Unlabeled))	·	
Bioaccumulative potential Not available.		
1,2.3,5.7-PENTACN (13C10, 99%) (5355-65-0 (Unlabeled)) Bioaccumulative potential No data available. 1,2.3,5,6.7-HEXACN (13C10, 98%) (103426-97-7 (Unlabeled)) Bioaccumulative potential No data available. 1,2.3,5,6.7-HEXACN (13C10, 99%) (67922-27-4 (Unlabeled)) Bioaccumulative potential No data available. OCTACN (13C10, 99%) (2234-13-1 (Unlabeled)) Log Pow 6.42 Bioaccumulative potential Not available. OCTACN (13C10, 99%) (2234-13-1 (Unlabeled)) Log Pow 6.42 Bioaccumulative potential Not available. 12.4 Mobility in soil PCN CALIBRATION SOLUTION CS6 (UNLABELED/3C10, 99%) in NONANE Ecology - soil Not available. NONANE UNLABELED (111-84-2) Ecology - soil Not available. 1,2.3,4-TETRACH-LORONAPHTHALENE UNLABELED (20020-02-4 (Unlabeled)) Ecology - soil Not available. 1,2.3,5-7-PENTACN UNLABELED (103426-96-6 (Unlabeled)) Ecology - soil No data available. 1,2.3,4,6,7-HEXACN UNLABELED (103426-96-6 (Unlabeled)) Ecology - soil No data available. 1,2.3,5,6,7-HEXACN UNLABELED (103426-95-5 (Unlabeled)) Ecology - soil No data available. 1,2.3,5,6,7-HEXACN UNLABELED (103426-95-5 (Unlabeled)) Ecology - soil No data available. 1,2.3,5,6,8-HEXACN UNLABELED (103426-95-5 (Unlabeled)) Ecology - soil No data available. 1,2.3,5,6,8-HEXACN UNLABELED (103426-95-5 (Unlabeled)) Ecology - soil No data available. 1,2.3,5,6,8-HEXACN UNLABELED (103426-95-5 (Unlabeled)) Ecology - soil No data available. 1,2.3,5,6,9-HEXACN UNLABELED (103426-95-5 (Unlabeled)) Ecology - soil No data available. 1,2.3,5,6,7-HEXACN UNLABELED (103426-95-5 (Unlabeled)) Ecology - soil No data available. 1,2.3,5,6,7-HEXACN UNLABELED (103426-95-6 (Unlabeled)) Ecology - soil No data available. 1,2.3,5,6,7-HEXACN (13C10, 99%) (53555-65-0 (Unlabeled)) Ecology - soil No data available. 1,2.3,5,6,7-HEXACN (13C10, 99%) (53555-65-0 (Unlabeled)) Ecology - soil No data available. 1,2.3,5,6,7-HEXACN (13C10, 99%) (67922-27-4 (Unlabeled)) Ecology - soil No data available. 1,2.3,5,6,7-HEXACN (13C10, 99%) (67922-27-4 (Unlabeled)) Ecology - soil No data available.	3	
Bioaccumulative potential No data available.	Bioaccumulative potential	Not available.
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Ecology - soil Not available.		<i>"</i>
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OCTACN (13C10, 99%) (2234-13-1 (Unlabeled))	
Ecology - soil	Not available.

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Other adverse effects

: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Waste materials should be disposed of under conditions which meet Federal, State, and Local

environmental control regulations.

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Additional information : Handle empty containers with care because residual vapors are flammable.

Ecology - waste materials : Hazardous waste due to toxicity.

SECTION 14: Transport information

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

14.1. UN number

UN-No.(DOT) : 1920 DOT NA no. UN1920

14.2. UN proper shipping name

DOT Proper Shipping Name : Nonanes

Department of Transportation (DOT) Hazard

Classes

Hazard labels (DOT) : 3 - Flammable liquid

3

Packing group (DOT) : III - Minor Danger

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

: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

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)

TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / 1 + a (tr - tf) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.

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

14.3. Additional information

Other information : No supplementary information available.

Overland transport

Packing group (ADR) : III

Class (ADR) : 3 - Flammable liquid

Hazard identification number (Kemler No.) : 30
Classification code (ADR) : F1

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Danger labels (ADR) : 3 - Flammable liquids

3

Orange plates :

30 1920

Tunnel restriction code : D/E
Limited quantities (ADR) 5L
EAC : 3Y
Excepted quantities (ADR) : E1

Transport by sea

DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a

passenger vessel.

MFAG-No : 128

Air transport

DOT Quantity Limitations Passenger aircraft/rail : 60 L

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 220 L

CFR 175.75)

Civil Aeronautics Law : Flammable liquids

14.4. Environmental hazards

Other information : No supplementary information available.

14.5. Special precautions for user

14.6. 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 CALIBRATION SOLUTION CS6 (UNLABELED/13C10, 99%) IN NONANE	
SARA Section 311/312 Hazard Classes Fire hazard Immediate (a	ncute) health hazard	

N-NONANE UNLABELED (111-84-2)		
	SARA Section 311/312 Hazard Classes	Fire hazard
		Immediate (acute) health hazard

ISOOCTANE UNLABELED (540-84-1)	
SARA Section 311/312 Hazard Classes	Fire hazard
	Immediate (acute) health hazard
	Delayed (chronic) health hazard

1,2,3,4-TCDD (1746-01-6)

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

PCN CALIBRATION SOLUTION CS6 (UNLABELED/13C10, 99%) IN NONANE

Listed on the Canadian DSL (Domestic Substances List) inventory.

15.2.1. National regulations

No additional information available

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15.3. US State regulations

PCN CALIBRATION SOLUTION CS6 (UNLABELED/13C10, 99%) IN NONANE()	
State or local regulations	U.S Massachusetts - Right To Know List
	U.S Pennsylvania - RTK (Right to Know) List
	U.S New Jersey - Right to Know Hazardous Substance List
	This product does not contain any chemicals known to State of California to cause cancer,
	birth defects, or any other reproductive harm.

N-NONANE UNLABELED (111-84-2)

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

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

ISOOCTANE UNLABELED (540-84-1)

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

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

1,2,3,4-TCDD (1746-01-6)

WARNING! This product contains a chemical known to the state of California to cause cancer, birth defects, or other reproductive harm.

SECTION 16: Other information

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 R-, H- and EUH-phrases::

ext of K, IT and Lott philases		
Acute Tox. 1 (Dermal)	Acute toxicity (dermal) Category 1	
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4	
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4	
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1	
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1	
Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard Category 3	
Aquatic Chronic 4	Hazardous to the aquatic environment - Chronic Hazard Category 4	
Asp. Tox. 1	Aspiration hazard Category 1	
Eye Dam. 1	Serious eye damage/eye irritation Category 1	
Eye Irrit. 2	Serious eye damage/eye irritation Category 2	
Flam. Liq. 2	Flammable liquids Category 2	
Flam. Liq. 3	Flammable liquids Category 3	
Muta. 2	Germ cell mutagenicity Category 2	
Skin Irrit. 2	skin corrosion/irritation Category 2	
STOT RE 1	Specific target organ toxicity (repeated exposure) Category 1	
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2	
STOT SE 1	Specific target organ toxicity (single exposure) Category 1	
STOT SE 2	Specific target organ toxicity (single exposure) Category 2	
STOT SE 3	Specific target organ toxicity (single exposure) Category 3	
H225	Highly flammable liquid and vapor	
H226	Flammable liquid and vapor	
H302	Harmful if swallowed	
H304	May be fatal if swallowed and enters airways	
H310	Fatal in contact with skin	
H315	Causes skin irritation	
H318	Causes serious eye damage	
H319	Causes serious eye irritation	
H332	Harmful if inhaled	

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H336	May cause drowsiness or dizziness
H341	Suspected of causing genetic defects
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
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects
H413	May cause long lasting harmful effects to aquatic life
R10	Flammable
R11	Highly flammable
R20	Harmful by inhalation
R20/21	Harmful by inhalation and in contact with skin
R22	Harmful if swallowed
R27	Very toxic in contact with skin
R36/37/38	Irritating to eyes, respiratory system and skin
R38	Irritating to skin
R41	Risk of serious damage to eyes
R48	Danger of serious damage to health by prolonged exposure
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R53	May cause long-term adverse effects in the aquatic environment
R65	Harmful: may cause lung damage if swallowed
R67	Vapors may cause drowsiness and dizziness
R68	Possible risk of irreversible effects
F	Highly flammable
N	Dangerous for the environment
T+	Very toxic
Xi	Irritant
Xn	Harmful

NFPA health hazard

: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt

medical attention is given.

NFPA fire hazard

: 3 - Liquids and solids that can be ignited under almost all

ambient conditions.

NFPA reactivity

: 0 - Normally stable, even under fire exposure conditions,

and are not reactive with water.



HMIS III Rating

Health : 2 Moderate Hazard - Temporary or minor injury may occur

Flammability : 3 Serious Hazard Physical : 0 Minimal Hazard

CIL Multi-Solvent Mixture SDS

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

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