

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: 24/10/2014

Revision date:

Version: 1.0

ECN-2680

	substance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Mixtures
Product name.	: OCTACHLORONAPHTHALENE (PCN-75) UNLABELED 100 UG/ML IN NONANE
Product code	: ECN-2680
1.2. Relevant identified uses of the s	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 sa	fety data sheet
Cambridge Isotope Laboratories, Inc.	
50 Frontage Road	
Andover, MA 01810 USA	
USA: 1-800-322-1174 Int: 1-978-749-800	0
<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	n .
2.1. Classification of the substance	or mixture
Classification according to Regulation (E	C) No. 1272/2008 [CLP]
Flam. Liq. 3	H226
Acute Tox. 4 (Inhalation:dust,mist)	H332
Skin Irrit. 2	H315
Eye Irrit. 2	H319
STOT SE 3	H336
Asp. Tox. 1	H304
Full text of H-phrases: see section 16	
Classification according to Directive 67/5	348/EEC or 1999/45/EC
Xn; R20	HOLEG UL 1939/HU/EG
Xn; R20 Xn; R65	
R10	
Full text of R-phrases: see section 16	
Classification (GHS-US)	
Flam. Lig. 3	H226
Acute Tox. 4 (Inhalation:dust,mist)	H332
Skin Irrit. 2	H315
Eye Irrit. 2A STOT SE 3	H319 H336
Asp. Tox. 1	H304

Adverse physicochemical, human health and environmental effects

Central Nervous System.

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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

Name	Product identifier	%	Classification according to Directive 67/548/EEC
N-NONANE UNLABELED	(CAS No)111-84-2 (EC no)203-913-4	99.9861	R10 Xn; R20 Xn; R65 R67
OCTACHLORONAPHTHALENE UNLABELED	(CAS No)2234-13-1 (Unlabeled) (EC no)218-778-7	0.0139	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	99.9861	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
OCTACHLORONAPHTHALENE UNLABELED	(CAS No)2234-13-1 (Unlabeled) (EC no)218-778-7	0.0139	Acute Tox. 4 (Oral), H302 Aquatic Chronic 4, H413
Name	Product identifier	%	Classification (GHS-US)
N-NONANE UNLABELED	(CAS No)111-84-2	99.9861	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

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	: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
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. Rinse skin with water/shower. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Wash with plenty of soap and water. Get medical advice/attention. Specific treatment (see Hazard pictograms (CLP) on this label).
First-aid measures after eye contact	: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
First-aid measures after ingestion	: Immediately call a POISON CENTER or doctor/physician.
4.2. Most important symptoms and effe	cts, both acute and delayed
Symptoms/injuries after inhalation	: Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled. 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 medicate	al attention and special treatment needed

No additional information available

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SECTION 5: Firefighting measures 5.1. Extinguishing media suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide. 5.2. Special hazards arising from the substance or mixture Fire hazard : Flammable liquid and vapor. Explosion hazard : May form flammable/explosive vapor-air mixture. 5.3. Advice for firefighters Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protect 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 li smoking. 6.1.1. For non-emergency personnel No additional information available 6.1.2. For emergency responders Protective equipment : Avoid breathing dust, mist or spray. 6.2. Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided. 6.3. Methods and material for containment and cleaning up		
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6.3. Methods and material for containment and cleaning up		
No additional information available		
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. Take precautionary measures against static discharge. U non-sparking tools. Use only outdoors or in a well-ventilated area. Avoid breathing dus spray.		
Hygiene measures : Wash Both hands thoroughly after handling.		
7.2. Conditions for safe storage, including any incompatibilities		
Technical measures : Proper grounding procedures to avoid static electricity should be followed. Ground/bon container and receiving equipment. Use explosion-proof electrical equipment.	ıd	
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		
N-NONANE UNLABELED (111-84-2)		
Italy - Portugal- USA ACGIH ACGIH TWA (ppm) 200.000000000 ppm Central Nervous System impairment.		

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8.2. Exposure controls

: Gloves. Protective goggles. Protective clothing. Self-contained breathing apparatus.
: Wear suitable protective clothing and gloves.
: Wear safety glasses with side shields (or goggles) and a face shield.
: Wear suitable protective clothing.
: 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
The properties listed below are for the solvent, the main compo	onent of this mixture.
Physical state	: Liquid
Appearance	: Liquid.
Molecular mass	: 128.3
Color	: No data available.
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: -53 °C (- 63 °F) - lit
Freezing point	: No data available
Boiling point	: 151 °C (304 °F) - lit
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)	: 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	

9.2. Other information No additional information available

SECT	ON 10: Stability and reactivity
10.1.	Reactivity
No addi	ional information available
10.2.	Chemical stability
See sto	age and expiration date on CoA.
10.3.	Possibility of hazardous reactions
No addi	ional information available
10.4.	Conditions to avoid
Open fla	me. Overheating. Direct sunlight. Heat. Sparks.
10.5.	Incompatible materials
No addi	ional information available

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10.6. Hazardous decomposition products		
May release flammable gases.		
SECTION 11: Toxicological information	on	
11.1. Information on toxicological effects		
Acute toxicity	: Harmful if inhaled.	
OCTACHLORONAPHTHALENE (PCN-75) UNLABELED 100 UG/ML IN NONANE		
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	
OCTACHLORONAPHTHALENE UNLABELED	(2234-13-1 (Unlabeled))	
ATE (oral)	500.000 mg/kg body weight	
Skin corrosion/irritation	: Causes skin irritation.	
Serious eye damage/irritation	: Causes serious eye irritation.	
Respiratory or skin sensitization	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Reproductive toxicity	: Not classified	
Specific target organ toxicity (single exposure)	: May cause drowsiness or dizziness.	
Specific target organ toxicity (repeated exposure)	: Not classified	
Aspiration hazard	: May be fatal if swallowed and enters airways.	
Potential Adverse human health effects and symptoms	: Harmful if inhaled.	
Symptoms/injuries after inhalation	: Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled. 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

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

12.2. Persistence and degradability

N-NONANE UNLABELED (111-84-2)		
Persistence and degradability	Not available.	
OCTACHLORONAPHTHALENE UNLABELED (2234-13-1 (Unlabeled))		
Persistence and degradability	Not available.	
12.3. Bioaccumulative potential		
OCTACHLORONAPHTHALENE (PCN-75) UNLABELED 100 UG/ML IN NONANE		
Log Pow	5.65	
N-NONANE UNLABELED (111-84-2)		
Log Pow	5.65	
Bioaccumulative potential	Indication of bioaccumulation.	
OCTACHLORONAPHTHALENE UNLABELED (2234-13-1 (Unlabeled))		
Log Pow	6.42	
13/11/2014	EN (English US) 6/10	

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 bulk packaging requirements of 173.241 of this subchapter are applicable. If the material h flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of th subchapter are applicable. IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Compo (31H21 and 31HA2, 31HB2, 31HD2, and 31HH2). Additional Requirement: Only liv with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in 2 for UN2672). T2 - 1.5 178.274(d)(2) Normal	OCTACHLORONAPHTHALENE UNLABELE	
N-NONANE UNLABELED (111-84-2) Ecology - soil Not available. OCTACLORONAPHTHALENE UNLABELED (2234-13-1 (Unlabeled)) Ecology - soil Ecology - soil Not available. 12.5. Results of PBT and vPvB assessment Not available. No additional information available International information available SECTION 13: Disposal considerations International information available SECTION 13: Disposal considerations : Waste materials should be disposed of under conditions which meet Federal, State, and Lic environmental control regulations. Matter display information : Waste materials should be disposed of under conditions which meet Federal, State, and Lic environmental control regulations. Matter display information : Unster materials in accordance with ADR / RID / ADNR / IMDG / ICAO / IATA 14.1. UN number : 1920 DOT Two no. UN1920 14.2. UN proper shipping name : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120 Eases : 3 - Flammable inquid Flavard labels (DOT)	Bioaccumulative potential	Not available.
Ecology - soil Not available. OCTACHLORONAPHTHALENE UNLABELED (223-13-1 (Unlabeled)) Ecology - soil No advisional information available Not available. 12.5. Results of PBT and vPvB assessment No advisional information available 12.6. Other adverse effects No additional information available SECTION 13: Disposal considerations Information available SECTION 13: Disposal considerations Information available SECTION 13: Disposal considerations Information available SECTION 14: Transport information : Waste materials should be disposed of under conditions which meet Federal, State, and La environmental control 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 Proper Shipping Name : Nonanes Dopartment of Transportation (DOT) Hazard : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120 Classes : 3 - Flammable liquid Packing group (DOT) : B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then bulk packaging requirements of 173.242 of this subchapter are applicable. (If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), the full spackag	12.4. Mobility in soil	
OCTACHLORONAPHTHALENE UNLABELED (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 No additional information available 12.6. Other adverse effects SECTION 13: Disposal considerations 13.1. Waste treatment methods environmental control regulations. Regional legislation (waste) : Waste materials should be disposed of under conditions which meet Federal, State, and Lie environmental control regulations. Additional information : Haade control regulations. Cology - waste materials : Heardeous waste due to toxicity. SECTION 14: Transport information : Heardeous waste due to toxicity. SECTION 14: Transport information : Heardeous waste due to toxicity. SECTION 14: Transport information : 1920 DOT No no. UN1920 14.2. UN proper shipping name : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120 Classes : Bi - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), there buik packaging requirements of 173.242 d 1 DOT Special Provisions (49 CFR 172.102) : Bi - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), there buik packaging requirements of 173.242 d 1 DOT S	N-NONANE UNLABELED (111-84-2)	
Ecology - soil Not available. 22.5. Results of PBT and vPVB assessment No additional information available Second Sec	Ecology - soil	Not available.
25. Results of PBT and vPvB assessment No additional information available Image: Comparison of the i	OCTACHLORONAPHTHALENE UNLABELE	D (2234-13-1 (Unlabeled))
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DOT Packaging Non Bulk (49 CFR 173.xxx) : 203		 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 liquid with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 5 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Tabl 2 for UN2672). T2 - 1.5 178.274(d)(2) Normal
DUT Packaging Bulk (49 CFR 173.XXX) : 242		
	DOT Packaging Bulk (49 CFR 173.xxx)	: 242
14.2 Additional information		
14.3. Additional information Other information : No supplementary information available.		No supplementary information available

NONANE ECN-2680

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

Overland transport		
Packing group (ADR)		
Class (ADR)	: 3 - Flammable liquid	
Hazard identification number (Kemler No.)	: 30	
Classification code (ADR)	: F1	
Danger labels (ADR)	: 3 - Flammable liquids	
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 (49 CFR 173.27)	: 60 L	
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 220 L	
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		
OCTACHLORONAPHTHALENE (PCN-75) UNLABELED 100 UG/ML IN NONANE		
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard	
N-NONANE UNLABELED (111-84-2)		
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard	

15.2. International regulations

CANADA

OCTACHLORONAPHTHALENE (PCN-75) UNLABELED 100 UG/ML IN NONANE

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

15.2.1. National regulations

No additional information available

NONANE ECN-2680

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

15.3. US State regulations		
OCTACHLORONAPHTHALENE (PCN-75) UNLABELED 100 UG/ML 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.

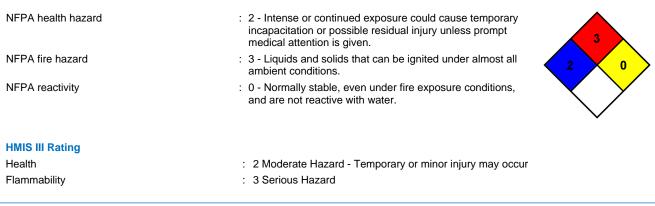
SECTION 16: Other information

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::

Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Chronic 4	Hazardous to the aquatic environment - Chronic Hazard Category 4
Asp. Tox. 1	Aspiration hazard Category 1
Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Flam. Liq. 3	Flammable liquids Category 3
Skin Irrit. 2	skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H226	Flammable liquid and vapor
H302	Harmful if swallowed
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
H413	May cause long lasting harmful effects to aquatic life
R10	Flammable
R20	Harmful by inhalation
R22	Harmful if swallowed
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
Xn	Harmful



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

Physical

: 0 Minimal Hazard

CIL 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