

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 06/08/2018 Revision date: : Version: 1.0 ECN-2647

	ntification of the substance/mixture and of the company/undertaking	
1.1. Product id		
Product form	: Mixtures	
Product name	: 1.2.7.8-TETRACN (PCN-41) UNLABELED 100 UG/ML IN NONANE	
Product code	: ECN-2647	
	dentified uses of the substance or mixture and uses advised against	
	dentified uses	
Main use category	: Professional use	
Industrial/Professiona	al use spec : For professional use only	
1.2.2. Uses advis	sed against	
No additional informa	ition available	
1.3. Details of	the supplier of the safety data sheet	
Cambridge Isotope L		
50 Frontage Road		
Andover, MA 01810 USA		
	'4 Int: 1-978-749-8000	
cilsales@isotope.con		
Emergenc	y telephone number	
Emergency numbers		
Chemtrec: 1-800-424		
International: 1-703-	741-5970 (24 hours)	
SECTION 2: Hazards identification		
020110N 2. 11a2		
	tion of the substance or mixture	
2.1. Classificat		
2.1. Classificat	ion of the substance or mixture	
2.1. Classificat	tion of the substance or mixture rding to Regulation (EC) No. 1272/2008 [CLP] H226	
2.1. Classificat Classification accor Flam. Liq. 3	tion of the substance or mixture rding to Regulation (EC) No. 1272/2008 [CLP] H226	
2.1. Classificat Classification accor Flam. Liq. 3 Acute Tox. 4 (Inhalat	tion of the substance or mixture rding to Regulation (EC) No. 1272/2008 [CLP] H226 ion) H332	
2.1. Classification Classification accor Flam. Liq. 3 Acute Tox. 4 (Inhalati Skin Irrit. 2	tion of the substance or mixture rding to Regulation (EC) No. 1272/2008 [CLP] H226 ion) H332 H315	
2.1. Classification Classification accor Flam. Liq. 3 Acute Tox. 4 (Inhalati Skin Irrit. 2 Eye Irrit. 2	tion of the substance or mixture rding to Regulation (EC) No. 1272/2008 [CLP] H226 ion) H332 H315 H319	
2.1. Classification accord Flam. Liq. 3 Acute Tox. 4 (Inhalation Skin Irrit. 2 Eye Irrit. 2 STOT SE 3	tion of the substance or mixture rding to Regulation (EC) No. 1272/2008 [CLP] H226 ion) H332 H315 H319 H336	
2.1. Classification Classification accord Flam. Liq. 3 Acute Tox. 4 (Inhalation Skin Irrit. 2 Eye Irrit. 2 STOT SE 3 STOT RE 2	tion of the substance or mixture rding to Regulation (EC) No. 1272/2008 [CLP] H226 ion) H332 H315 H319 H336 H373	
2.1. Classification Classification accor Flam. Liq. 3 Acute Tox. 4 (Inhalati Skin Irrit. 2 Eye Irrit. 2 STOT SE 3 STOT RE 2 Asp. Tox. 1 Aquatic Acute 1	tion of the substance or mixture rding to Regulation (EC) No. 1272/2008 [CLP] H226 ion) H332 H315 H319 H336 H373 H304	
2.1. Classification accord Flam. Liq. 3 Acute Tox. 4 (Inhalation Skin Irrit. 2 Eye Irrit. 2 STOT SE 3 STOT RE 2 Asp. Tox. 1 Aquatic Acute 1 Full text of hazard classification	tion of the substance or mixture rding to Regulation (EC) No. 1272/2008 [CLP] H226 ion) H332 H315 H319 H336 H373 H304 H400 asses and H-statements : see section 16	
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Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

Central Nervous System. Flammable liquid and vapour. May cause drowsiness or dizziness. Harmful if inhaled. Causes skin irritation. Causes serious eye irritation. May be fatal if swallowed and enters airways.

2.2. Label elements	
Labeling according to Regulation (EC) N	No. 1272/2008 [CLP]
Hazard pictograms (CLP)	
	GHS02 GHS08 GHS09
Signal word (CLP)	: Danger
Hazardous ingredients	: 1,2,7,8-TETRACN UNLABELED; N-NONANE UNLABELED
Hazard statements (CLP)	 H226 - Flammable liquid and vapour 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 H373 - May cause damage to organs (central nervous system) through prolonged or repeated exposure (in contact with skin, if inhaled, if swallowed) H400 - Very toxic to aquatic life
Precautionary statements (CLP)	 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 - Keep container tightly closed. P240 - Ground/bond container and receiving equipment. P241 - Use explosion-proof electrical, lighting, ventilating equipment P260 - Do not breathe dust, fume, gas, mist, spray, vapors. P264 - Wash hands, forearms and face thoroughly after handling. P271 - Use only outdoors or in a well-ventilated area. P273 - Avoid release to the environment.
GHS-US labeling	
Hazard pictograms (GHS-US)	: GHS02 GHS08 GHS09 GHS09
Signal word (GHS-US)	GHS02 GHS08 GHS09 : Danger
Hazard statements (GHS-US)	 H226 - Flammable liquid and vapour 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 H373 - May cause damage to organs (central nervous system) through prolonged or repeated exposure (Dermal, Inhalation, oral) H400 - Very toxic to aquatic life
Precautionary statements (GHS-US)	 P210 - Keep away from heat, open flames, sparks No smoking. 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. P260 - Do not breathe dust, fume, gas, mist, spray, vapors. P261 - Avoid breathing dust/fume/gas/mist/vapors/spray. P264 - Wash hands, forearms and face thoroughly after handling. P271 - Use only outdoors or in a well-ventilated area. P273 - Avoid release to the environment. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P301+P310 - If swallowed: Immediately call a doctor, a POISON CENTER

- P301+P310 If swallowed: Immediately call a doctor, a POISON CENTER
- P302+P352 If on skin: Wash with plenty of water

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P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P312 - Call a doctor, a POISON CENTER if you feel unwell
P314 - Get medical advice/attention if you feel unwell.
P321 - Specific treatment (see Hazardous component(s) for labeling on this label)
P331 - Do NOT induce vomiting.
P332+P313 - If skin irritation occurs: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P370+P378 - In case of fire: Use alcohol resistant foam, carbon dioxide (CO2), dry extinguishing powder to extinguish.

- P391 Collect spillage.
- 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 hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

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	99.99	R10 Xn; R20 Xn; R65 Xi; R36/38 R67
1,2,7,8-TETRACN UNLABELED	(CAS-No.) 149864-82-4 (EC Index-No.)	0.01	N; R50/53 Xi; R38 Xi; R41 Xn; R48/22
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	99.99	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation:vapour), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H336 Asp. Tox. 1, H304
1,2,7,8-TETRACN UNLABELED	(CAS-No.) 149864-82-4 (EC Index-No.)	0.01	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
Name	Product identifier	%	GHS-US classification
N-NONANE UNLABELED	(CAS-No.) 111-84-2	99.99	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation:vapour), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H336 Asp. Tox. 1, H304
1,2,7,8-TETRACN UNLABELED	(CAS-No.) 149864-82-4	0.01	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT RE 2, H373 Aquatic Chronic 1, H410

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

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SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Call a physician immediately.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor/physician if you feel unwell. Give oxygen or artificial respiration if necessary.
First-aid measures after skin contact	: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Do not induce vomiting. Call a physician immediately.
4.2. Most important symptoms and eff	ects, both acute and delayed
Symptoms/effects	: May cause drowsiness or dizziness. May cause damage to organs (central nervous system) through prolonged or repeated exposure (in contact with skin, if inhaled, if swallowed).
Symptoms/effects after inhalation	: Harmful if inhaled. May cause respiratory irritation.
Symptoms/effects after skin contact	: Causes skin irritation. May be harmful in contact with skin.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: May be fatal if swallowed and enters airways. Risk of lung edema.
4.3. Indication of any immediate media Treat symptomatically.	cal attention and special treatment needed
SECTION 5: Firefighting measures 5.1. Extinguishing media	
5.1. Extinguishing media Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide. Alcohol resistant foam.
5.2. Special hazards arising from the s	
Fire hazard	: Flammable liquid and vapour.
Reactivity	: Flammable liquid and vapour. Vapors may form flammable mixture with air.
5.3. Advice for firefighters	
Firefighting instructions	: Do not enter fire area without proper protective equipment, including respiratory protection.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTION 6: Accidental release me	asures
6.1. Personal precautions, protective of	equipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Wear personal protective equipment. Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid breathing fume, gas, mist, spray, vapors. Avoid contact with skin and eyes.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Prevent entry to sewers and public waters. Ave	pid release to the environment.
6.3. Methods and material for contain	nent and cleaning up
For containment	: Dike and contain spill. Dispose as hazardous waste. Comply with local regulations for disposal.
Methods for cleaning up	: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
Other information	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	
For further information refer to section 13.	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed	: Avoid all contact with skin, eyes, or clothing. Keep away from sources of ignition - No smoking. Do not breathe gas/fumes/vapor/spray (appropriate wording to be specified by the manufacturer). Take precautionary measures against static discharges.

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Precautions for safe handling	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapors may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Avoid breathing fume, gas, mist, spray, vapors. Avoid contact with skin and eyes.
Hygiene measures	: Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, includ	ing any incompatibilities
Technical measures	: Store in a well-ventilated place. Keep container tightly closed. Keep dry. Ground/bond container and receiving equipment.
Storage conditions	: Store at room temperature away from light and moisture.

Specific end use(s) 7.3.

No additional information available

SECTION 8: Exposure controls/personal protection 8.1. **Control parameters** 1,2,7,8-TETRACN (PCN-41) UNLABELED 100 UG/ML IN NONANE Italy - Portugal - USA ACGIH ACGIH TWA (ppm) 200.0000000 ppm USA. ACGIH Threshold Limit Values (TLV)

Italy - Portugal - USA ACGIH	Remark (ACGIH)	CNS impair
USA NIOSH	NIOSH REL (TWA) (mg/m³)	1050 mg/m ³ USA. NIOSH Recommended Exposure Limits
USA NIOSH	NIOSH REL (TWA) (ppm)	200 ppm USA. NIOSH Recommended Exposure Limits
USA NIOSH	Remark (NIOSH)	Central Nervous System impairment
USA OSHA	OSHA PEL (TWA) (mg/m³)	1050 mg/m ³ USA. OSHA - Table Z-1 Limits for Air Contaminants - 1910.1000
USA OSHA	OSHA PEL (TWA) (ppm)	200 ppm USA. OSHA - Table Z-1 Limits for Air Contaminants - 1910.1000
USA OSHA	OSHA PEL (Ceiling) (mg/m ³)	1050 California permissible exposure limits for chemical contaminants.
USA OSHA	OSHA PEL (Ceiling) (ppm)	200 ppm California permissible exposure limits for chemical contaminants.
N-NONANE UNLABELED (11	1-84-2)	
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	200.00000000 ppm USA. ACGIH Threshold Limit Values (TLV)
Italy - Portugal - USA ACGIH	Remark (ACGIH)	CNS impair
USA NIOSH	NIOSH REL (TWA) (mg/m³)	1050 mg/m ³ USA. NIOSH Recommended Exposure Limits
USA NIOSH	NIOSH REL (TWA) (ppm)	200 ppm USA. NIOSH Recommended Exposure Limits
USA NIOSH	Remark (NIOSH)	Central Nervous System impairment
USA OSHA	OSHA PEL (TWA) (mg/m³)	1050 mg/m ³ USA. OSHA - Table Z-1 Limits for Air Contaminants - 1910.1000
USA OSHA	OSHA PEL (TWA) (ppm)	200 ppm USA. OSHA - Table Z-1 Limits for Air Contaminants - 1910.1000
USA OSHA	OSHA PEL (Ceiling) (mg/m³)	1050 California permissible exposure limits for chemical contaminants.
USA OSHA	OSHA PEL (Ceiling) (ppm)	200 ppm California permissible exposure limits for chemical contaminants.

8.2. **Exposure controls**

Appropriate engineering controls

: Ensure good ventilation of the work station.

Personal protective equipment

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



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Materials for protective clothing	: Wear suitable protective clothing and gloves.
Hand protection	: protective gloves.
Eye protection	: Chemical goggles or face shield. Chemical goggles or safety glasses.
Skin and body protection	: Wear suitable protective clothing, gloves and eye/face protection.
Respiratory protection	: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Approved respirator.
Environmental exposure controls	: Avoid release to the environment.

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 component of this mixture.		
Physical state	: Liquid	
Appearance	: Liquid	
Molecular mass	: 128.3 g/mol	
Color	: Colorless	
Odor	: No data available	
Odor threshold	: No data available	
рН	: No data available	
Relative evaporation rate (butyl acetate=1)	: No data available	
Melting point	: Not applicable	
Freezing point	: -53 °C (- 63 °F) - lit	
Boiling point	: 151 °C (304 °F) - lit	
Flash point	: 31 °C (87.8 °F) - closed cup	
Auto-ignition temperature	: 205 °C (401 °F)	
Decomposition temperature	: No data available	
Flammability (solid, gas)	: Not applicable	
Vapor pressure	: 5.69 hPa (4.27 mmHg) at 25 °C (77 °F)	
Relative vapor density at 20 °C	: No data available	
Relative density	: No data available	
Specific gravity / density	: 0.718 g/ml at 25 °C (77 °F)	
Solubility	: Water: 0.0002 % at 25 °C (77 °F) - slightly soluble	
Log Pow	: 5.65	
Log Kow	: No data available	
Viscosity, kinematic	: <= 1.008 mm²/s at 20 °C (68 °F)	
Viscosity, dynamic	: No data available	
Explosive properties	: No data available	
Oxidizing properties	: No data available	
Explosion limits	: 0.87 - 2.9 % (V)	
9.2. Other information		

No additional information available

SECTION 10: Stability and reactivity		
10.1. Reactivity		
Flammable liquid and vapour. Vapors may form flammable mixture with air.		
10.2. Chemical stability		
See storage and expiration date on CoA.		
10.3. Possibility of hazardous reactions		
No dangerous reactions known under normal conditions of use.		
10.4. Conditions to avoid		
Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.		
10.5. Incompatible materials		
No additional information available		
10.6. Hazardous decomposition products		
Carbon oxides (CO, CO2).		

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SECTION 11: Toxicological informati	on
11.1. Information on toxicological effects	
Acute toxicity	: Inhalation: Harmful if inhaled.
1,2,7,8-TETRACN (PCN-41) UNLABELED 100	UG/ML IN NONANE
LC50 inhalation rat (mg/l)	23760 mg/m ³ male - 4 h
ATE CLP (gases)	4500.000 ppmV/4h
ATE CLP (vapors)	11.000 mg/l/4h
ATE CLP (dust, mist)	1.500 mg/l/4h
Skin corrosion/irritation, Dermal, rat	Result: Skin Irritation (Draize Test)
Additional information	: S. Typhimurium Result: negative
1,2,7,8-TETRACN UNLABELED (149864-82-4)	
ATE CLP (oral)	500.000 mg/kg body weight
N-NONANE UNLABELED (111-84-2)	
LC50 inhalation rat (mg/l)	23760 mg/m ³ male - 4 h
ATE CLP (vapors)	11.000 mg/l/4h
ATE CLP (dust, mist)	23.760 mg/l/4h
Skin corrosion/irritation, Dermal, rat	Result: Skin Irritation (Draize Test)
Additional information	: S. Typhimurium Result: negative
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	: May cause damage to organs (central nervous system) through prolonged or repeated exposure (in contact with skin, if inhaled, if swallowed).
1,2,7,8-TETRACN (PCN-41) UNLABELED 100	UG/ML IN NONANE
NOAEL (oral,rat,90 days)	100 mg/kg bodyweight/day female (OECD Test Guildeline 408)
N-NONANE UNLABELED (111-84-2)	
NOAEL (oral,rat,90 days)	100 mg/kg bodyweight/day female (OECD Test Guildeline 408)
Aspiration hazard	: May be fatal if swallowed and enters airways.
Potential Adverse human health effects and symptoms	: This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.
Symptoms/effects after inhalation	: Harmful if inhaled. May cause respiratory irritation.
Symptoms/effects after skin contact	: Causes skin irritation. May be harmful in contact with skin.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: May be fatal if swallowed and enters airways. Risk of lung edema.

SECTION 12: Ecological information		
12.1. Toxicity		
Ecology - water	: Very toxic to aquatic life.	
1,2,7,8-TETRACN (PCN-41) UNLABELED 100 UG/ML IN NONANE		
EC50 Daphnia 1	0.2 mg/l static test EC50 - Daphnia magna (Water flea) - 48 h	
N-NONANE UNLABELED (111-84-2)		
EC50 Daphnia 1	0.2 mg/l static test EC50 - Daphnia magna (Water flea) - 48 h	

Persistence and degradability 12.2.

No additional information available

12.3. Bioaccumulative potential		
1,2,7,8-TETRACN (PCN-41) UNLABELED 100 UG/ML IN NONANE		
Log Pow	5.65	
Bioaccumulative potential	Indication of bioaccumulation.	

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N-NONANE UNLABELED (111-84-2)	
Log Pow	5.65
Bioaccumulative potential	Indication of bioaccumulation.
2.4. Mobility in soil	
No additional information available	
2.5. Results of PBT and vPvB assessme	nt
No additional information available	
12.6. Other adverse effects	
Other adverse effects	: Disposal must be done according to official regulations. Very toxic to aquatic life.
SECTION 13: Disposal consideration	S
13.1. Waste treatment methods	
Regional legislation (waste)	: Waste materials should be disposed of under conditions which meet Federal, State, and loca environmental control regulations.
Product/Packaging disposal recommendations	: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a license professional waste disposal service to dispose of this material.
Ecology - waste materials	: Dispose of as unused product.
SECTION 14: Transport information	
n accordance with ADR / RID / IMDG / IATA / AE	DN
I4.1. UN number	
UN-No.(DOT)	: 1920
DOT NA no.	UN1920
4.2. UN proper shipping name	
Proper Shipping Name (DOT)	: Nonanes
Class (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Hazard labels (DOT)	: 3 - Flammable liquid
	FLAMMABLE LIQUID
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 bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has 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); Compositi (31H21 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liqui with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Tal 2 for UN2672). T2 - 1.5 178.274(d)(2) Normal
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
4.3. Additional information	
Emergency Response Guide (ERG) Number	: 128
Other information	: No supplementary information available.
Dverland transport Hazard identification number (Kemler No.)	: 30

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Orange plates	30 1920
Tunnel restriction code (ADR)	: D/E
Limited quantities (ADR)	5
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	: No supplementary information available.
14.5. Special precautions for user	x II of MARPOL 73/78 and the IBC Code
14.5. Special precautions for user 14.6. Transport in bulk according to Anne Not applicable	x II of MARPOL 73/78 and the IBC Code
14.5. Special precautions for user 14.6. Transport in bulk according to Anne Not applicable SECTION 15: Regulatory information 15.1. US Federal regulations	x II of MARPOL 73/78 and the IBC Code
14.5. Special precautions for user 14.6. Transport in bulk according to Anne Not applicable SECTION 15: Regulatory information	x II of MARPOL 73/78 and the IBC Code
14.5. Special precautions for user 14.6. Transport in bulk according to Anne Not applicable SECTION 15: Regulatory information 15.1. US Federal regulations 1,2,7,8-TETRACN (PCN-41) UNLABELED 100	x II of MARPOL 73/78 and the IBC Code
14.5. Special precautions for user 14.6. Transport in bulk according to Anne Not applicable SECTION 15: Regulatory information 15.1. US Federal regulations 1,2,7,8-TETRACN (PCN-41) UNLABELED 100 Listed on the United States TSCA (Toxic Substated) 100	x II of MARPOL 73/78 and the IBC Code UG/ML IN NONANE ances Control Act) inventory
14.5. Special precautions for user 14.6. Transport in bulk according to Anne Not applicable SECTION 15: Regulatory information 15.1. US Federal regulations 1,2,7,8-TETRACN (PCN-41) UNLABELED 100 Listed on the United States TSCA (Toxic Substates) EPA TSCA Regulatory Flag SARA Section 302 Threshold Planning 100	x II of MARPOL 73/78 and the IBC Code UG/ML IN NONANE ances Control Act) inventory T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.
14.5. Special precautions for user 14.6. Transport in bulk according to Anne Not applicable SECTION 15: Regulatory information 15.1. US Federal regulations 1,2,7,8-TETRACN (PCN-41) UNLABELED 100 Listed on the United States TSCA (Toxic Substates) EPA TSCA Regulatory Flag SARA Section 302 Threshold Planning Quantity (TPQ)	x II of MARPOL 73/78 and the IBC Code UG/ML IN NONANE ances Control Act) inventory T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA. Not subject to reporting requirements of the United States SARA Section 302. Fire hazard
14.5. Special precautions for user 14.6. Transport in bulk according to Anne Not applicable SECTION 15: Regulatory information 15.1. US Federal regulations 1,2,7,8-TETRACN (PCN-41) UNLABELED 100 Listed on the United States TSCA (Toxic Substates) EPA TSCA Regulatory Flag SARA Section 302 Threshold Planning Quantity (TPQ) SARA Section 311/312 Hazard Classes	x II of MARPOL 73/78 and the IBC Code UG/ML IN NONANE ances Control Act) inventory T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA. Not subject to reporting requirements of the United States SARA Section 302. Fire hazard Immediate (acute) health hazard Not subject to reporting requirements of the United States SARA Section 313.
 14.5. Special precautions for user 14.6. Transport in bulk according to Anne Not applicable SECTION 15: Regulatory information 15.1. US Federal regulations 1,2,7,8-TETRACN (PCN-41) UNLABELED 100 Listed on the United States TSCA (Toxic Substates TSCA Regulatory Flag SARA Section 302 Threshold Planning Quantity (TPQ) SARA Section 311/312 Hazard Classes SARA Section 313 - Emission Reporting 1,2,7,8-TETRACN UNLABELED (149864-82-4 SARA Section 302 Threshold Planning 	x II of MARPOL 73/78 and the IBC Code UG/ML IN NONANE ances Control Act) inventory T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA. Not subject to reporting requirements of the United States SARA Section 302. Fire hazard Immediate (acute) health hazard Not subject to reporting requirements of the United States SARA Section 313.
 14.5. Special precautions for user 14.6. Transport in bulk according to Anne Not applicable SECTION 15: Regulatory information 15.1. US Federal regulations 1,2,7,8-TETRACN (PCN-41) UNLABELED 100 Listed on the United States TSCA (Toxic Substates TSCA Regulatory Flag SARA Section 302 Threshold Planning Quantity (TPQ) SARA Section 311/312 Hazard Classes SARA Section 313 - Emission Reporting 1,2,7,8-TETRACN UNLABELED (149864-82-4 	x II of MARPOL 73/78 and the IBC Code UG/ML IN NONANE ances Control Act) inventory T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA. Not subject to reporting requirements of the United States SARA Section 302. Fire hazard Immediate (acute) health hazard Not subject to reporting requirements of the United States SARA Section 313.
 14.5. Special precautions for user 14.6. Transport in bulk according to Anne Not applicable SECTION 15: Regulatory information 15.1. US Federal regulations 1,2,7,8-TETRACN (PCN-41) UNLABELED 100 Listed on the United States TSCA (Toxic Substates TSCA Regulatory Flag SARA Section 302 Threshold Planning Quantity (TPQ) SARA Section 311/312 Hazard Classes SARA Section 313 - Emission Reporting 1,2,7,8-TETRACN UNLABELED (149864-82-4 SARA Section 302 Threshold Planning Quantity (TPQ) 	x II of MARPOL 73/78 and the IBC Code UG/ML IN NONANE ances Control Act) inventory T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA. Not subject to reporting requirements of the United States SARA Section 302. Fire hazard Immediate (acute) health hazard Not subject to reporting requirements of the United States SARA Section 313. Not subject to reporting requirements of the United States SARA Section 302.
 14.5. Special precautions for user 14.6. Transport in bulk according to Anne Not applicable SECTION 15: Regulatory information 15.1. US Federal regulations 1,2,7,8-TETRACN (PCN-41) UNLABELED 100 Listed on the United States TSCA (Toxic Substate) EPA TSCA Regulatory Flag SARA Section 302 Threshold Planning Quantity (TPQ) SARA Section 313 - Emission Reporting 1,2,7,8-TETRACN UNLABELED (149864-82-4) SARA Section 302 Threshold Planning Quantity (TPQ) SARA Section 302 Threshold Planning SARA Section 313 - Emission Reporting 1,2,7,8-TETRACN UNLABELED (149864-82-4) SARA Section 302 Threshold Planning Quantity (TPQ) SARA Section 311/312 Hazard Classes 	x II of MARPOL 73/78 and the IBC Code UG/ML IN NONANE ances Control Act) inventory T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA. Not subject to reporting requirements of the United States SARA Section 302. Fire hazard Immediate (acute) health hazard Not subject to reporting requirements of the United States SARA Section 313. Not subject to reporting requirements of the United States SARA Section 302. Immediate (acute) health hazard
 14.5. Special precautions for user 14.6. Transport in bulk according to Anne Not applicable SECTION 15: Regulatory information 15.1. US Federal regulations 1,2,7,8-TETRACN (PCN-41) UNLABELED 100 Listed on the United States TSCA (Toxic Substated On the United States (Toxic Su	x II of MARPOL 73/78 and the IBC Code UG/ML IN NONANE ances Control Act) inventory T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA. Not subject to reporting requirements of the United States SARA Section 302. Fire hazard Immediate (acute) health hazard Not subject to reporting requirements of the United States SARA Section 313. Not subject to reporting requirements of the United States SARA Section 302. Immediate (acute) health hazard Not subject to reporting requirements of the United States SARA Section 302.
 14.5. Special precautions for user 14.6. Transport in bulk according to Anne Not applicable SECTION 15: Regulatory information 15.1. US Federal regulations 1,2,7,8-TETRACN (PCN-41) UNLABELED 100 Listed on the United States TSCA (Toxic Substates TSCA Regulatory Flag SARA Section 302 Threshold Planning Quantity (TPQ) SARA Section 311/312 Hazard Classes SARA Section 302 Threshold Planning 1,2,7,8-TETRACN UNLABELED (149864-82-4 SARA Section 302 Threshold Planning Quantity (TPQ) SARA Section 313 - Emission Reporting 1,2,7,8-TETRACN UNLABELED (149864-82-4 SARA Section 311/312 Hazard Classes SARA Section 311/312 Hazard Classes SARA Section 313 - Emission Reporting N-NONANE UNLABELED (111-84-2) Listed on the United States TSCA (Toxic Substates TSCA Regulatory Flag 	x II of MARPOL 73/78 and the IBC Code UG/ML IN NONANE ances Control Act) inventory T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA. Not subject to reporting requirements of the United States SARA Section 302. Fire hazard Immediate (acute) health hazard Not subject to reporting requirements of the United States SARA Section 313. Not subject to reporting requirements of the United States SARA Section 302. Immediate (acute) health hazard Not subject to reporting requirements of the United States SARA Section 302.
 14.5. Special precautions for user 14.6. Transport in bulk according to Anne Not applicable SECTION 15: Regulatory information 15.1. US Federal regulations 1,2,7,8-TETRACN (PCN-41) UNLABELED 100 Listed on the United States TSCA (Toxic Substates TSCA Regulatory Flag SARA Section 302 Threshold Planning Quantity (TPQ) SARA Section 311/312 Hazard Classes SARA Section 302 Threshold Planning 1,2,7,8-TETRACN UNLABELED (149864-82-4 SARA Section 302 Threshold Planning Quantity (TPQ) SARA Section 313 - Emission Reporting 1,2,7,8-TETRACN UNLABELED (149864-82-4 SARA Section 311/312 Hazard Classes SARA Section 313 - Emission Reporting N-NONANE UNLABELED (111-84-2) Listed on the United States TSCA (Toxic Substates) 	x II of MARPOL 73/78 and the IBC Code UG/ML IN NONANE ances Control Act) inventory T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA. Not subject to reporting requirements of the United States SARA Section 302. Fire hazard Immediate (acute) health hazard Not subject to reporting requirements of the United States SARA Section 313. Not subject to reporting requirements of the United States SARA Section 302. Immediate (acute) health hazard Not subject to reporting requirements of the United States SARA Section 302. Immediate (acute) health hazard Not subject to reporting requirements of the United States SARA Section 313. ances Control Act) inventory
 14.5. Special precautions for user 14.6. Transport in bulk according to Anne Not applicable SECTION 15: Regulatory information 15.1. US Federal regulations 1,2,7,8-TETRACN (PCN-41) UNLABELED 100 Listed on the United States TSCA (Toxic Substate) EPA TSCA Regulatory Flag SARA Section 302 Threshold Planning Quantity (TPQ) SARA Section 313 - Emission Reporting 1,2,7,8-TETRACN UNLABELED (149864-82-4) SARA Section 302 Threshold Planning Quantity (TPQ) SARA Section 302 Threshold Planning Quantity (TPQ) SARA Section 313 - Emission Reporting 1,2,7,8-TETRACN UNLABELED (149864-82-4) SARA Section 311/312 Hazard Classes SARA Section 313 - Emission Reporting N-NONANE UNLABELED (111-84-2) Listed on the United States TSCA (Toxic Substate) EPA TSCA Regulatory Flag SARA Section 302 Threshold Planning Quantity (TPQ) 	x II of MARPOL 73/78 and the IBC Code UG/ML IN NONANE ances Control Act) inventory T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA. Not subject to reporting requirements of the United States SARA Section 302. Fire hazard Immediate (acute) health hazard Not subject to reporting requirements of the United States SARA Section 313. N Not subject to reporting requirements of the United States SARA Section 302. Immediate (acute) health hazard Not subject to reporting requirements of the United States SARA Section 302. Immediate (acute) health hazard Not subject to reporting requirements of the United States SARA Section 302. Immediate (acute) health hazard Not subject to reporting requirements of the United States SARA Section 313. T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.

15.2. International regulations

CANADA

1,2,7,8-TETRACN (PCN-41) UNLABELED 100 UG/ML IN NONANE	
Listed on the Canadian DSL (Domestic Substances List)	
N-NONANE UNLABELED (111-84-2)	
Listed on the Canadian DSL (Domestic Substances List)	

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15.2.1. National regulations

No additional information available

15.3. US State regulations				
1,2,7,8-TETRACN (PCN-41)		N NONANE		
U.S California - Proposition 65 - Carcinogens List		No		
U.S California - Proposition 65 - Developmental Toxicity		No		
U.S California - Proposition 65 - Reproductive Toxicity - Female		No		
U.S California - Proposition 65 - Reproductive Toxicity - Male		No		
State or local regulations		U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations U.S New Jersey - Right to Know Hazardous Substance List U.S Massachusetts - Right To Know List U.S Pennsylvania - RTK (Right to Know) List U.S New York - Reporting of Releases Part 597 - List of Hazardous Substances		
1,2,7,8-TETRACN UNLABE	LED (149864-82-4)			
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	No	No	No	
N-NONANE UNLABELED (111-84-2)			
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	No	No	No	
1,2,7,8-TETRACN UNLABE	LED (149864-82-4)			
State or local regulations				
U.S Pennsylvania - RTK (F U.S New Jersey - Right to	Right to Know) List Know Hazardous Substance	e List		
N-NONANE UNLABELED (111-84-2)			
State or local regulations				
U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations U.S New Jersey - Right to Know Hazardous Substance List U.S Massachusetts - Right To Know List U.S Pennsylvania - RTK (Right to Know) List U.S New York - Reporting of Releases Part 597 - List of Hazardous Substances				

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:vapour)	Acute toxicity (inhalation:vapour) 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
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. 3	Flammable liquids Category 3
Skin Irrit. 2	Skin corrosion/irritation Category 2

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STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2	
STOT SE 3	Specific target organ toxicity (single exposure) Category 3	
H226	Flammable liquid and vapour	
H302	Harmful if swallowed	
H304	May be fatal if swallowed and enters airways	
H315	Causes skin irritation	
H318	Causes serious eye damage	
H319	Causes serious eye irritation	
H332	Harmful if inhaled	
H336	May cause drowsiness or dizziness	
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	
R10	Flammable	
R20	Harmful by inhalation	
R36/38	Irritating to eyes and skin	
R38	Irritating to skin	
R41	Risk of serious damage to eyes	
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation	
R48/22	Harmful: danger of serious damage to health by prolonged exposure if swallowed	
R50	Very toxic to aquatic organisms	
R50/53	Very toxic to aquatic organisms, 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	
Ν	Dangerous for the environment	
Xi	Irritant	
Xn	Harmful	

NFPA health hazard	: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
NFPA fire hazard	: 3 - Liquids and solids (including finely divided suspended solids) that can be ignited under almost all ambient temperature conditions.
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.
Hazard Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 3 Serious Hazard

: 0 Minimal Hazard

CIL Mixture SDS

Physical

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