

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: 06/05/2014

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Supersedes: 06/05/2014

Version: 2.0

SECTION 1: Identification o	f the substance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Mixtures
Product name	: 2,3-DICN (PCN-10) UNLABELED 100 UG/ML IN NONANE
Product code	: ECN-2624
1.2. Relevant identified uses	of the substance or mixture and uses advised against
1.2.1. Relevant identified uses	
Main use category	: Professional use
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: 1-978-7 <u>cilsales@isotope.com</u> www.isotop	49-8000
Emergency telephone nu	mber
Emergency numbers:	
Chemtrec: 1-800-424-9300 (24 hou International: 1-703-741-5970 (24 h	
SECTION 2: Hazards identif	ication
2.1. Classification of the subs	stance or mixture
Classification according to Regula	tion (EC) No. 1272/2008 [CLP]
Flam. Liq. 3 H2	
Acute Tox. 4 (Inhalation:vapour) H3	32
Skin Irrit. 2 H3	15
Eye Irrit. 2 H3	19
STOT SE 3 H3	36

Asp. Tox. 1 H304

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

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

R10 Xn; R20 Xn; R65 Xi; R36/38 R67

Full text of R-phrases: see section 16

GHS-US classification

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

Full text of H statements : see section 16

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Adverse physicochemical, human health and environmental effects

Central Nervous System. Flammable liquid and vapor. 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	o. 1272/2008 [CLP]
Hazard pictograms (CLP)	
	GHS02 GHS08 GHS07
Signal word (CLP)	: Danger
Hazard statements (CLP)	 H226 - Flammable liquid and vapor H304 - May be fatal if swallowed and enters airways H315 - Causes skin irritation H319 - Causes serious eye irritation H332 - Harmful if inhaled H336 - May cause drowsiness or dizziness
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 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. P280 - Wear eye protection, face protection, protective clothing, protective gloves.
GHS-US labeling	
Hazard pictograms (GHS-US)	GHS02 GHS08 GHS07
Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	: H226 - Flammable liquid and vapor
	H304 - May be fatal if swallowed and enters airways H315 - Causes skin irritation H319 - Causes serious eye irritation H332 - Harmful if inhaled H336 - May cause drowsiness or dizziness
Precautionary statements (GHS-US)	: P210 - Keep away from heat, hot surfaces, 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. 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. P280 - Wear eye protection, face protection, protective clothing, protective gloves. P301+P310 - If swallowed: Immediately call a doctor, a POISON CENTER P302+P352 - If on skin: Wash with plenty of water P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P312 - Call a doctor, a POISON CENTER if you feel unwell P321 - Specific treatment (see Hazardous component(s) for labeling on this label) P332+P313 - If skin irritation occurs: Get medical advice/attention. P337+P313 - If eye irritation persists: Get medical advice/attention.

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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

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	99.986	R10 Xn; R20 Xn; R65 Xi; R36/38 R67
2,3-DICHLORONAPHTHALENE UNLABELED	(CAS-No.) 2050-75-1 (EC-No.) 218-102-0	0.014	Xn; R22 C; R34 Xi; R41 Xi; R37/38 N; R50/53
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	99.986	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
2,3-DICHLORONAPHTHALENE UNLABELED	(CAS-No.) 2050-75-1 (EC-No.) 218-102-0	0.014	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Chronic 2, H411
Name	Product identifier	%	GHS-US classification
N-NONANE UNLABELED	(CAS-No.) 111-84-2	99.986	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
2,3-DICHLORONAPHTHALENE UNLABELED	(CAS-No.) 2050-75-1	0.014	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 2, H401 Aquatic Chronic 2, H411

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

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.

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4.2. Most important symptoms and eff	
Symptoms/effects	: May cause drowsiness or dizziness.
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	· Weter energy Development France Contrast disside Alaskal resistant form
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 vapor.
Reactivity	: Flammable liquid and vapor. 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
	equipment and emergency procedures
6.1.1. For non-emergency personnel	. Wear paragraph protective equipment Ventilate chillers area. No open flames, no aparts, and
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 processitions	
6.2. Environmental precautions Prevent entry to sewers and public waters. Ave	aid releases to the environment
· ·	
6.3. Methods and material for containr	
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
Precautions for safe handling	manufacturer). Take precautionary measures against static discharges. : 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, inclue	ding 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.
7.3. Specific end use(s)	
No additional information available	

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SECTION 8: Exposure controls/personal protection		
8.1. Control parameters		
2,3-DICN (PCN-10) UNLABEL	ED 100 UG/ML IN NONANE	
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/m ³)	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/m ³)	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.
2,3-DICHLORONAPHTHALEI	NE UNLABELED (2050-75-1)	
Italy - Portugal - USA ACGIH	· · ·	skin designation{0}

8.2. Exposure controls

Appropriate engineering controls Personal protective equipment

- : Ensure good ventilation of the work station.
- : Protective clothing. Protective goggles. Gloves. Self-contained breathing apparatus.



Materials for protective clothing Hand protection Eye protection Skin and body protection

Respiratory protection

Environmental exposure controls

: Wear suitable protective clothing and gloves.

: protective gloves.

- : Chemical goggles or face shield. Chemical goggles or safety glasses.
- : Wear suitable protective clothing, gloves and eye/face protection.
- : Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Approved respirator.
- : Avoid release to the environment.

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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)	
0.2 Other information		

9.2. **Other information**

No additional information available

Flammable liquid and vapor. Vapors may form flammable mixture with air. 10.2. Chemical stability See storage and expiration date on CoA. 10.3. Possibility of hazardous reactions No dangerous reactions known under normal conditions of use. 10.4. Conditions to avoid Avoid contact with hot surfaces. Heat. No flames, No sparks. Eliminate all sources of ignition. 10.5. Incompatible materials No additional information available 10.6. Hazardous decomposition products Carbon oxides (CO, CO2). SECTION 11: Toxicological information 11.1. Information on toxicological effects Acute toxicity : Inhalation:vapour: Harmful if inhaled. 2.3-DICN (PCN-10) UNLABELED 100 UG/ML IN NONANE LC50 inhalation rat (mg/l) 23760 mg/m³ male - 4 h ATE CLP (vapors) 11.000 mg/l/4h	SECTION 10: Stability and reactivity		
0.2. 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). SECTION 11: Toxicological information 11.1. Information on toxicological effects Acute toxicity Inhalation:vapour: Harmful if inhaled. 2.3-DICN (PCN-10) UNLABELED 100 UG/ML IN NONANE LC50 inhalation rat (mg/l) 23760 mg/m³ male - 4 h ATE CLP (vapors) 11.000 mg/l/4h	I0.1. Reactivity		
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 Information available 10.6. Hazardous decomposition products Carbon oxides (CO, CO2). SECTION 11: Toxicological information 11.1. Information on toxicological effects Acute toxicity : Inhalation:vapour: Harmful if inhaled. 2.3-DICN (PCN-10) UNLABELED 100 UG/ML IN NONANE Inhalation rat (mg/l) 2.3760 mg/m³ male - 4 h ATE CLP (vapors) 11.000 mg/l/4h 11.000 mg/l/4h	Flammable liquid and vapor. Vapors may form flammable mixture with air.		
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). SECTION 11: Toxicological information 11.1. Information on toxicological effects Acute toxicity : Inhalation:vapour: Harmful if inhaled. 2.3-DICN (PCN-10) UNLABELED 100 UG/ML IN NONANE LC50 inhalation rat (mg/l) 23760 mg/m³ male - 4 h ATE CLP (vapors) 11.000 mg/l/4h	10.2. Chemical stability		
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. Image: Condition of the surface of the surf	See storage and expiration date on CoA.		
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). SECTION 11: Toxicological information 11.1. Information on toxicological effects Acute toxicity : Inhalation:vapour: Harmful if inhaled. 2.3-DICN (PCN-10) UNLABELED 100 UG/ML IN NONANE LC50 inhalation rat (mg/l) 23760 mg/m³ male - 4 h ATE CLP (vapors) 11.000 mg/l/4h	10.3. Possibility of hazardous reactions		
Avoid contact with hot surfaces. Heat. No flames, No sparks. Eliminate all sources of ignition. 10.5. Incompatible materials No additional information available Information available 10.6. Hazardous decomposition products Carbon oxides (CO, CO2). ECTION 11: Toxicological information 11.1. Information on toxicological effects Acute toxicity : Inhalation:vapour: Harmful if inhaled. 2,3-DICN (PCN-10) UNLABELED 100 UG/ML IN NONANE Inhalation rat (mg/l) LC50 inhalation rat (mg/l) 23760 mg/m³ male - 4 h ATE CLP (vapors) 11.000 mg/l/4h	No dangerous reactions known under normal condition	ons of use.	
10.5. Incompatible materials No additional information available 10.6. Hazardous decomposition products Carbon oxides (CO, CO2). SECTION 11: Toxicological information Information on toxicological effects Acute toxicity i Inhalation:vapour: Harmful if inhaled. 2,3-DICN (PCN-10) UNLABELED 100 UG/ML IN NONANE LC50 inhalation rat (mg/l) 23760 mg/m³ male - 4 h ATE CLP (vapors) 11.000 mg/l/4h	10.4. Conditions to avoid		
No additional information available 0.6. Hazardous decomposition products Carbon oxides (CO, CO2). SECTION 11: Toxicological information II.1. Information on toxicological effects Acute toxicity i Inhalation:vapour: Harmful if inhaled. 2,3-DICN (PCN-10) UNLABELED 100 UG/ML IN NONANE LC50 inhalation rat (mg/l) 23760 mg/m³ male - 4 h ATE CLP (vapors) 11.000 mg/l/4h	Avoid contact with hot surfaces. Heat. No flames, No	sparks. Eliminate all sources of ignition.	
10.6. Hazardous decomposition products Carbon oxides (CO, CO2). SECTION 11: Toxicological information 11.1. Information on toxicological effects Acute toxicity : Inhalation:vapour: Harmful if inhaled. 2,3-DICN (PCN-10) UNLABELED 100 UG/ML IN NONANE LC50 inhalation rat (mg/l) 23760 mg/m³ male - 4 h ATE CLP (vapors) 11.000 mg/l/4h	10.5. Incompatible materials		
Carbon oxides (CO, CO2). SECTION 11: Toxicological information 11.1. Information on toxicological effects Acute toxicity	No additional information available		
SECTION 11: Toxicological information 11.1. Information on toxicological effects Acute toxicity Inhalation:vapour: Harmful if inhaled. 2,3-DICN (PCN-10) UNLABELED 100 UG/ML IN NONANE Inhalation rat (mg/l) LC50 inhalation rat (mg/l) 23760 mg/m³ male - 4 h ATE CLP (vapors) 11.000 mg/l/4h	10.6. Hazardous decomposition products		
1.1. Information on toxicological effects Acute toxicity : Inhalation:vapour: Harmful if inhaled. 2,3-DICN (PCN-10) UNLABELED 100 UG/ML IN NONANE LC50 inhalation rat (mg/l) 23760 mg/m³ male - 4 h ATE CLP (vapors) 11.000 mg/l/4h	Carbon oxides (CO, CO2).		
Acute toxicity : Inhalation:vapour: Harmful if inhaled. 2,3-DICN (PCN-10) UNLABELED 100 UG/ML IN NONANE LC50 inhalation rat (mg/l) 23760 mg/m³ male - 4 h ATE CLP (vapors) 11.000 mg/l/4h	SECTION 11: Toxicological information		
2,3-DICN (PCN-10) UNLABELED 100 UG/ML IN NONANE LC50 inhalation rat (mg/l) 23760 mg/m³ male - 4 h ATE CLP (vapors) 11.000 mg/l/4h	11.1. Information on toxicological effects		
LC50 inhalation rat (mg/l) 23760 mg/m³ male - 4 h ATE CLP (vapors) 11.000 mg/l/4h	Acute toxicity :	Inhalation:vapour: Harmful if inhaled.	
ATE CLP (vapors) 11.000 mg/l/4h	2,3-DICN (PCN-10) UNLABELED 100 UG/ML IN NONANE		
	LC50 inhalation rat (mg/l)	23760 mg/m ³ male - 4 h	
Chin comparing (invitation, Demond) and Descrite Chin Invitation (Design Test)	ATE CLP (vapors)	11.000 mg/l/4h	
Skin corrosion/irritation, Dermai, rat Result: Skin irritation (Draize Lest)	Skin corrosion/irritation, Dermal, rat	Result: Skin Irritation (Draize Test)	
Additional information : S. Typhimurium Result: negative	Additional information :	: S. Typhimurium Result: negative	

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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	
Skin corrosion/irritation, Dermal, rat	Result: Skin Irritation (Draize Test)	
Additional information	: S. Typhimurium Result: negative	
2,3-DICHLORONAPHTHALENE UNLABELED	(2050-75-1)	
ATE CLP (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	: 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 - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

12.2. Persistence and degradability

No additional information available 40

12.3. Bioaccumulative potential		
2,3-DICN (PCN-10) UNLABELED 100 UG/ML IN NONANE		
Log Pow	5.65	
Bioaccumulative potential	Indication of bioaccumulation.	
N-NONANE UNLABELED (111-84-2)		
Log Pow	5.65	
Bioaccumulative potential	Indication of bioaccumulation.	
12.4. Mobility in soil		
No additional information available		
12.5. Results of PBT and vPvB asse	ssment	

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No additional information available
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12.6. Other adverse effects Other adverse effects

: Disposal must be done according to official regulations.

SECTION 13: Disposal consideration	IS
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.
Product/Packaging disposal recommendations	: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.
Ecology - waste materials	: Dispose of as unused product.

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SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / IATA / A	
14.1. UN number	
UN-No.(DOT)	: 1920
DOT NA no.	UN1920
14.2. 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 LIQUD
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 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
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
Marine pollutant	: No
14.3. Additional information	. 100
Emergency Response Guide (ERG) Number	: 128

Other information	: No supplementary information available.
Overland transport	
Packing group (ADR)	: 111
Class (ADR)	: 3 - Flammable liquid
Hazard identification number (Kemler No.)	: 30
Classification code (ADR)	: F1
Hazard labels (ADR)	: 3 - Flammable liquids
	3

Orange plates

Tunnel restriction code (ADR)
Limited quantities (ADR)
EAC
Excepted quantities (ADR)

: D/E 51 : 3Y : E1

30

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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		
2,3-DICN (PCN-10) UNLABELED 100 UG/ML IN NONANE		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
EPA TSCA Regulatory Flag	T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.	
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard	
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.	
N-NONANE UNLABELED (111-84-2)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
EPA TSCA Regulatory Flag	T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.	
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard	
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.	
2,3-DICHLORONAPHTHALENE UNLABELED (2050-75-1)		
SARA Section 302 Threshold Planning Quantity (TPQ)	SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard	
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313	

15.2. International regulations

CANADA

2,3-DICN (PCN-10) UNLABELED 100 UG/ML IN NONANE	
Listed on the Canadian DSL (Domestic Substances List)	
N-NONANE UNLABELED (111-84-2)	

15.2.1. **National regulations**

No additional information available

15.3. US State regulations

2,3-DICN (PCN-10) UNLABELED 100 UG/ML IN 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	No

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2,3-DICN (PCN-10) UNLABELED 100 UG/ML IN NONANE()				
Toxicity - Male				
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		
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	
2,3-DICHLORONAPHTHAL	ENE UNLABELED (2050-75	-1)		
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)				
State or local regulations				
U.S New Jersey - Right to U.S Massachusetts - Righ U.S Pennsylvania - RTK (I	Know Hazardous Substance t To Know List		าร	
,	ENE UNLABELED (2050-75	-1)		
State or local regulations				
U.S Pennsylvania - RTK (U.S New Jersey - Right to	Right to Know) List Know Hazardous Substance	List		

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:

text of it; if and Eori philoses.		
Acute Tox. 4 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 4	
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4	
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2	
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	
STOT SE 3	Specific target organ toxicity (single exposure) Category 3	
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	
H318	Causes serious eye damage	
H319	Causes serious eye irritation	
H332	Harmful if inhaled	
H335	May cause respiratory irritation	
H336	May cause drowsiness or dizziness	
H411	Toxic to aquatic life with long lasting effects	
R10	Flammable	
R20	Harmful by inhalation	
R22	Harmful if swallowed	
R34	Causes burns	

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R36/38	Irritating to eyes and skin
R37/38	Irritating to respiratory system and skin
R41	Risk of serious damage to eyes
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
С	Corrosive
N	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
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