

# **DI-N-PENTYL PHTHALATE UNLABELED 100 UG/ML IN NONANE**

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: 23/10/2015

Revision date:

Version: 1.0

### ULM-7433-S

<b>SECTION 1: Identif</b>	ication of the substance/mixture and of the company/undertaking
1.1. Product identi	fier
Product form	: Mixture
Product name.	: DI-N-PENTYL PHTHALATE UNLABELED 100 UG/ML IN NONANE
Product code	: ULM-7433-S
1.2. Relevant ident	ified uses of the substance or mixture and uses advised against
1.2.1. Relevant ident	ified uses
Industrial/Professional us	e spec : For professional use only.
1.2.2. Uses advised	against
No additional information	
1.3. Details of the	supplier of the safety data sheet
Cambridge Isotope Labor 50 Frontage Road Andover, MA 01810 USA USA: 1-800-322-1174 I cilsales@isotope.com	
Emergency tel	lephone number
Emergency numbers:	
Chemtrec: 1-800-424-93 International: 1-703-741-	
<b>SECTION 2: Hazard</b>	Is identification
	of the substance or mixture
Classification according	g to Regulation (EC) No. 1272/2008 [CLP]
Flam. Liq. 3	H226
Acute Tox. 4 (Inhalation)	H332
Skin Irrit. 2	H315
Eye Irrit. 2	H319
STOT SE 3	H336
Asp. Tox. 1	H304
Full text of H-phrases: se	e section 16
Classification according	g to Directive 67/548/EEC or 1999/45/EC
Xn; R20 Xn; R65 Xi; R38 R10	
Full text of R-phrases: se	e section 16
GHS-US classification	
Flam. Liq. 3 Acute Tox. 4 (Inhalation) Skin Irrit. 2 Eye Irrit. 2A STOT SE 3	H226 H332 H315 H319 H336

Adverse physicochemical, human health and environmental effects

H304

Central Nervous System.

Asp. Tox. 1

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#### Label elements 2.2.



Hazard pictograms (CLP)



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

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

P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

P304+P340 - IF INHALED: remove victim to fresh air and keep at rest in a position comfortable for breathing

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

- P312 Call a POISON CENTER/doctor/physician if you feel unwell
- P321 Specific treatment (see Hazard pictograms (CLP) on this label)
- P331 If swallowed, do NOT induce vomiting
- P332+P313 If skin irritation occurs: Get medical advice/attention
- P337+P313 If eye irritation persists: Get medical advice/attention
- P362 Take off contaminated clothing and wash before reuse

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

P403+P233 - Store in a well-ventilated place. Keep container tightly closed

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

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P501 - Dispose of contents/container to Comply with applicable regulations.

#### 2.3. Other hazards

No additional information available

#### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

3.2. Mixture

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 Xi; R38
DI-N-PENTYL PHTHALATE UNLABELED substance listed as REACH Candidate (Dipentyl phthalate (DPP))	(CAS No) 131-18-0 (EC no) 205-017-9	0.0139	N; R50 Repr.Cat.2; R60 Repr.Cat.2; R61
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:vapour), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H336 Asp. Tox. 1, H304
DI-N-PENTYL PHTHALATE UNLABELED substance listed as REACH Candidate (Dipentyl phthalate (DPP))	(CAS No) 131-18-0 (EC no) 205-017-9	0.0139	Repr. 1B, H360 Aquatic Acute 1, H400
Name	Product identifier	%	GHS-US classification
N-NONANE UNLABELED	(CAS No) 111-84-2	99.9861	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

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

SECTION 4: First aid measures	
4.1. Description of first aid measure	9S
First-aid measures general	: Move out of dangerous area. Consult a physician and show this safety data sheet.
First-aid measures after inhalation	<ul> <li>Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor/physician if you feel unwell.</li> </ul>
First-aid measures after skin contact	<ul> <li>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).</li> </ul>
First-aid measures after eye contact	<ul> <li>Immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention.</li> </ul>
First-aid measures after ingestion	: Immediately call a POISON CENTER or doctor/physician.
4.2. Most important symptoms and	effects, both acute and delayed
Symptoms/injuries after inhalation	: May cause drowsiness or dizziness.
Symptoms/injuries after skin contact	: Causes skin irritation.
Symptoms/injuries after eye contact	: Causes eye irritation.
Symptoms/injuries after ingestion	: May be fatal if swallowed and enters airways.
4.3. Indication of any immediate me	dical attention and special treatment needed
No additional information available	

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according to Regulation (EC) No. 453	/2010 and according to Federal Register / Vol. 77,	No. 58 / Monday, March 26, 2012 / Rules and Regulations		
SECTION 5: Firefighting measures				
5.1. Extinguishing media	à			
Suitable extinguishing media	: Use water spray, alcoh	ol-resistant foam, dry chemical, or carbon dioxide.		
5.2. Special hazards aris	sing from the substance or mixture			
Fire hazard	: Flammable liquid and v	/apour.		
Explosion hazard	: May form flammable/e	kplosive vapour-air mixture.		
Reactivity	: Vapors may form explo	sive mixture with air.		
5.3. Advice for firefighte	rs			
Protection during firefighting	Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.			
<b>SECTION 6: Accidental</b>	release measures			
	is, protective equipment and emergency	procedures		
General measures		es. Use special care to avoid static electric charges. No naked lights. No		
6.1.1. For non-emergency	personnel			
Emergency procedures	ventilation. Remove all	e equipment. Avoid breathing vapors, mist or gas. Ensure adequate sources of ignition. Evacuate personnel to safe areas. Beware of vapours xplosive concentrations. Vapours can accumulate in low areas.		
6.1.2. For emergency resp	onders			
Protective equipment	: Avoid breathing dust, r	nist or spray.		
6.2. Environmental prec	autions			
Prevent further leakage or spilla	age if safe to do so. Do not let product enter	drains. Discharge into the environment must be avoided.		
6.3. Methods and materi	al for containment and cleaning up			
For containment		collect with non-combustible absorbent material. Disposal should be in able Federal, State and local regulations.		
6.4. Reference to other s	sections			
No additional information availa	ble			
<b>SECTION 7: Handling a</b>	nd storage			
7.1. Precautions for safe	handling			
Additional hazards when proces	ssed : Handle empty containe	ers with care because residual vapours are flammable.		
Precautions for safe handling		noking. Take precautionary measures against static discharge. Use only e only outdoors or in a well-ventilated area. Avoid breathing dust, mist or		
Hygiene measures	: Wash Both hands thore	bughly after handling.		
7.2. Conditions for safe	storage, including any incompatibilities			
Technical measures		edures to avoid static electricity should be followed. Ground/bond g equipment. Use explosion-proof electrical equipment.		
Storage conditions	1	: Store at room temperature away from light and moisture.		
Incompatible materials	: Heat sources.			
7.3. Specific end use(s)	7.3. Specific end use(s)			
No additional information availa	ble			
SECTION 8: Exposure of	controls/personal protection			
8.1. Control parameters				
DI-N-PENTYL PHTHALATE	JNLABELED 100 UG/ML IN NONANE			
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	200.000000000 ppm Central Nervous System impairment.		
N-NONANE UNLABELED (1	11-84-2)			
Italy - Portugal - USA ACGIH		200.0000000000 ppm Central Nervous System impairment.		

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#### 8.2. Exposure controls Personal protective equipment

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



Hand protection	: Wear suitable protective clothing and gloves.
Eye protection	: Wear safety glasses with side shields (or goggles) and a face shield.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Wear respiratory protection.

#### SECTION 9: Physical and chemical properties

9.1. Information on basic physical and	chamical proportion	
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	
Colour	: Colourless.	
Odour	: No data available	
Odour threshold	: No data available	
pH	: No data available	
Relative evaporation rate (butylacetate=1)	: No data available	
Melting point	: No data available	
Freezing point	: -53 °C (- 63 °F) - lit	
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 vapour	
Vapour pressure	: 12.4 hPa (9.3 mmHg) at 37.7 °C (99.9 °F)	
Relative vapour density at 20 °C	: No data available	
Relative density	: No data available	
Density	: 0.718 g/ml	
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	
Oxidising properties	: No data available	
Explosive limits	: 0.87 - 2.9 % (V)	
0.2 Other information		

#### 9.2. Other information

SECT	ION 10: Stability and reactivity
10.1.	Reactivity
Vapors	may form explosive mixture with air.
10.2.	Chemical stability
See sto	rage and expiration date on CoA.
10.3.	Possibility of hazardous reactions
No addi	tional information available
10.4.	Conditions to avoid
Open fla	ame. Overheating. Direct sunlight. Heat. Sparks.

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10.5. Incompatible materials	
Strong oxidizing agents.	
10.6. Hazardous decomposition products	
May release flammable gases.	
SECTION 11: Toxicological information	on
11.1. Information on toxicological effects	
Acute toxicity	: Harmful if inhaled.
DI-N-PENTYL PHTHALATE UNLABELED 100	UG/ML IN NONANE
LC50 inhalation rat (mg/l)	23760 mg/m <sup>3</sup> male - 4 h
LC50 inhalation rat (ppm)	3200 ppm/4h
ATE (gases)	4500.000 ppmV/4h
ATE (vapours)	11.000 mg/l/4h
ATE (dust,mist)	1.500 mg/l/4h
N-NONANE UNLABELED (111-84-2)	
LC50 inhalation rat (mg/l)	23760 mg/m <sup>3</sup> male - 4 h
LC50 inhalation rat (ppm)	3200 ppm/4h
ATE (gases)	3200.000 ppmV/4h
ATE (vapours)	11.000 mg/l/4h
ATE (dust,mist)	23.760 mg/l/4h
Skin corrosion/irritation	: Causes skin irritation.
	Skin - rat - Skin irritation - Draize test
Serious eye damage/irritation	: Causes serious eye irritation.
	No data available
Respiratory or skin sensitisation	: Not available
	No data available
Corm coll mutogenicity	: Not available
Germ cell mutagenicity	
Carcinogenicity	: Not classified
Reproductive toxicity	: Not available
Specific target organ toxicity (single exposure)	: May cause drowsiness or dizziness.
	May cause drowsiness or dizziness.
Specific target organ toxicity (repeated	: Not classified
exposure)	No data available
Aspiration hazard	: May be fatal if swallowed and enters airways.
Potential Adverse human health effects and symptoms	: The chemical, physical, and toxicological properties have not been thoroughly investigated.
Symptoms/injuries after inhalation	: May cause drowsiness or dizziness.
Symptoms/injuries after skin contact	: Causes skin irritation.
Symptoms/injuries after eye contact	: Causes eye irritation.
Symptoms/injuries after ingestion	: May be fatal if swallowed and enters airways.

12.1. Toxicity

No additional information available

#### 12.2. Persistence and degradability

2.3. Bioaccumulative potential			
DI-N-PENTYL PHTHALATE 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.			

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DI-N-PENTYL PHTHALATE UNLABELI	ED (131-18-0)
Log Pow	4.85
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB asse	essment
DI-N-PENTYL PHTHALATE UNLABELI	ED (131-18-0)
This substance/mixture does not meet th	
This substance/mixture does not meet th	
12.6. Other adverse effects	
Other adverse effects	: An environmental hazard cannot be excluded in the event of unprofessional handling or disposa Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
SECTION 13: Disposal conside	rations
SECTION 13: Disposal consider 13.1. Waste treatment methods	rations
13.1. Waste treatment methods	<ul> <li>rations</li> <li>Waste materials should be disposed of under conditions which meet Federal, State, and Local environmental control regulations.</li> </ul>
13.1.         Waste treatment methods           Regional legislation (waste)	: Waste materials should be disposed of under conditions which meet Federal, State, and Local
13.1.         Waste treatment methods           Regional legislation (waste)           Waste disposal recommendations	<ul> <li>Waste materials should be disposed of under conditions which meet Federal, State, and Local environmental control regulations.</li> </ul>
	<ul> <li>Waste materials should be disposed of under conditions which meet Federal, State, and Local environmental control regulations.</li> <li>Dispose in a safe manner in accordance with local/national regulations.</li> </ul>
13.1.       Waste treatment methods         Regional legislation (waste)         Waste disposal recommendations         Additional information         Ecology - waste materials	<ul> <li>Waste materials should be disposed of under conditions which meet Federal, State, and Local environmental control regulations.</li> <li>Dispose in a safe manner in accordance with local/national regulations.</li> <li>Handle empty containers with care because residual vapours are flammable.</li> <li>Hazardous waste due to toxicity.</li> </ul>
<b>Uaste treatment methods</b> Regional legislation (waste)           Waste disposal recommendations           Additional information	<ul> <li>Waste materials should be disposed of under conditions which meet Federal, State, and Local environmental control regulations.</li> <li>Dispose in a safe manner in accordance with local/national regulations.</li> <li>Handle empty containers with care because residual vapours are flammable.</li> <li>Hazardous waste due to toxicity.</li> </ul>

14.1. UN number	
UN-No.(DOT)	: 1920
DOT NA no.	UN1920
14.2. UN proper shipping name	
DOT Proper Shipping Name	: Nonanes
Department of Transportation (DOT) Hazard Classes	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Hazard labels (DOT)	: 3 - Flammable liquid
Packing group (DOT)	: III - Minor Danger
DOT Special Provisions (49 CFR 172.102)	<ul> <li>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.</li> <li>IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HD2, 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).</li> <li>T2 - 1.5 178.274(d)(2) Normal</li></ul>
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 242
14.3. Additional information	
Other information	: No supplementary information available.
Overland transport	
Packing group (ADR)	: III
Class (ADR)	: 3 - Flammable liquids
22/01/2016	EN (English) 7/10

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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 code	: 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(Hazardous materials notice Appended Table 1 Article 194 of the Enforcemen Regulations)
14.4. Environmental hazards	
Other information	: No supplementary information available.
14.5. Special precautions for user	

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code 14.6. Not applicable

SECTION 15: Regulatory information		
15.1. US Federal regulations		
DI-N-PENTYL PHTHALATE 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

DI-N-PENTYL PHTHALATE UNLABELED 100 UG/ML IN NONANE	
Listed on the Canadian DSL (Domestic Sustances List) inventory.	

#### 15.2.1. National regulations

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15.3. US State	regulations

DI-N-PENTYL PHTHALATE 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::

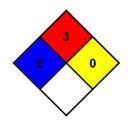
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — AcuteHazard, Category 1
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Repr. 1B	Reproductive toxicity, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
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
H360	May damage fertility or the unborn child
H400	Very toxic to aquatic life
R10	Flammable
R20	Harmful by inhalation
R38	Irritating to skin
R50	Very toxic to aquatic organisms
R60	May impair fertility
R61	May cause harm to the unborn child
R65	Harmful: may cause lung damage if swallowed
R67	Vapours may cause drowsiness and dizziness
N	Dangerous for the environment
Xi	Irritant
Xn	Harmful

NFPA health hazard

NFPA fire hazard

NFPA reactivity

- : 2 Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.
- : 3 Liquids and solids that can be ignited under almost all ambient conditions.
- : 0 Normally stable, even under fire exposure conditions, and are not reactive with water.



HMIS III Rating

## 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

Flammability Physical : 3 Serious Hazard : 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