

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: 30/11/2015

Revision date:

Version: 1.0

ULM-4521-S

1.1. Product id	entifier	
Product form	: Mix	tures
Product name.		I-NONYLPHENOL DIETHOXYLATE UNLABELED 100 UG/ML IN NONANE
Product code		M-4521-S
.2. Relevant i	lentified uses of the substance of	or mixture and uses advised against
1.2.1. Relevant i	dentified uses	
Main use category	: Pro	fessional use
1.2.2. Uses advis	sed against	
No additional informa		
.3. Details of	the supplier of the safety data sh	eet
Cambridge Isotope L	aboratories, Inc.	
50 Frontage Road Andover, MA 01810		
USA	4 Int. 1 070 740 0000	
JSA: 1-800-322-117 cilsales@isotope.com	4 Int: 1-978-749-8000 www.isotope.com	
Emergenc	y telephone number	
Emergency numbers		
Chemtrec: 1-800-42 nternational: 1-703-	4-9300 (24 hours) 741-5970 (24 hours)	
SECTION 2: Haz	ards identification	
2.1. Classificat	ion of the substance or mixture	
Classification acco	ding to Regulation (EC) No. 1272	2/2008 [CLP]
Flam. Liq. 3	H226	
Acute Tox. 4 (Inhalat	on:dust,mist) H332	
Skin Irrit. 2	H315	
Eye Irrit. 2	H319	
STOT SE 3	H336	
Asp. Tox. 1	H304	
	: see section 16	
Full text of H-phrases		
	ding to Directive 67/548/EEC or 1	1999/45/EC
Classification acco	ding to Directive 67/548/EEC or 1	1999/45/EC
Classification accor	ding to Directive 67/548/EEC or	1999/45/EC
Classification accord (n; R20 (n; R65 (i; R38	ding to Directive 67/548/EEC or	1999/45/EC
Classification accor Kn; R20 Kn; R65 Ki; R38 R10		1999/45/EC
Classification accor Kn; R20 Kn; R65 Ki; R38 R10		1999/45/EC
Classification accor Xn; R20 Xn; R65 Xi; R38 R10 Full text of R-phrases	s: see section 16	1999/45/EC
Xn; R20 Xn; R65 Xi; R38 R10 Full text of R-phrases Classification (GHS Flam. Liq. 3	:: see section 16 - US) H226	1999/45/EC
Classification accor Xn; R20 Xn; R65 Xi; R38 R10 Full text of R-phrases Classification (GHS Flam. Liq. 3 Acute Tox. 4 (Inhalat	:: see section 16 - US) H226 on) H332	1999/45/EC
Classification accor Xn; R20 Xn; R65 Xi; R38 R10 Full text of R-phrases Classification (GHS Flam. Liq. 3 Acute Tox. 4 (Inhalat Skin Irrit. 2	:: see section 16 - US) H226	1999/45/EC
Classification accor Xn; R20 Xn; R65 Xi; R38 R10 Full text of R-phrases Classification (GHS	s: see section 16 -US) H226 on) H332 H315	1999/45/EC

Adverse physicochemical, human health and environmental effects

H304

No additional information available

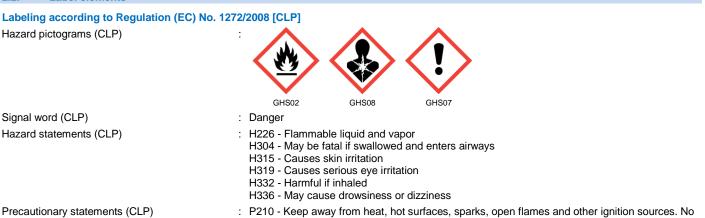
Asp. Tox. 1

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2.2. Label elements



- 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, spray, vapors
- P264 Wash Both hands thoroughly after handling
- P271 Use only outdoors or in a well-ventilated area
- P280 Wear protective clothing, protective gloves

GHS-US labeling

Hazard pictograms (GHS-US)	HS02 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, spray, vapors P264 - Wash Both hands thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective clothing, protective gloves P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician P302+P352 - IF ON SKIN: Wash with plenty of soap and water P303+P351+P335 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P312 - Call a POISON CENTER/doctor/physician if you feel unwell P331 - If swallowed, do NOT induce vomiting P332+P313 - If eye irritation occurs: Get medical advice/attention P337+P313 - If eye irritation occurs: Get medical advice/attention P332+P378 - In case of fire: Use Carbon dioxide., Dry chemical., Alcohol resistant foam. 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 Dispose in a safe manner in accordance with local/national regulations.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures			
Name	Product identifier	%	Classification according to Directive 67/548/EEC
N-NONANE UNLABELED	(CAS No) 111-84-2 (EC no) 203-913-4	99.986	R10 Xn; R20 Xn; R65 R67 Xi; R38
P-N-NONYLPHENOL DIETHOXYLATE UNLABELED	(CAS No) 20427-84-3 (Listed as REACH Candidate) (EC no)	0.014	Xi; R36/37/38 R42
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
P-N-NONYLPHENOL DIETHOXYLATE UNLABELED	(CAS No) 20427-84-3 (Listed as REACH Candidate) (EC no)	0.014	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 STOT SE 3, H335
Name	Product identifier	%	Classification (GHS-US)
N-NONANE UNLABELED	(CAS No) 111-84-2	99.986	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 measures	
First-aid measures after inhalation	: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor/physician if you feel unwell.
First-aid measures after skin contact	: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Get medical advice/attention. Specific treatment (see First aid measures on this label).
4.2. Most important symptoms and effect	s, both acute and delayed
Symptoms/injuries after inhalation	: Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled. May cause drowsiness or dizziness.
Symptoms/injuries after skin contact	: Causes skin irritation.
4.3. Indication of any immediate medical	attention and special treatment needed
No additional information available	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
suitable extinguishing media	: Dry chemical. Water spray. Foam.

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	sing from the substance or mixture	
Fire hazard	: Flammable liquid and va	
Explosion hazard	: May form flammable/exp	plosive vapor-air mixture.
5.3. Advice for firefighte Firefighting instructions	: Wear a self contained b	reathing apparatus
		reating apparatus.
SECTION 6: Accidental		
	ns, protective equipment and emergency p	
General measures	smoking.	s. Use special care to avoid static electric charges. No naked lights. No
6.1.1. For non-emergency	personnel	
Emergency procedures	ventilation. Remove all	equipment. Avoid breathing vapors, mist or gas. Ensure adequate sources of ignition. Evacuate personnel to safe areas. Beware of vapours plosive concentrations. Vapours can accumulate in low areas.
6.1.2. For emergency resp	onders	
Protective equipment	: Avoid breathing dust, m	ist or spray.
6.2. Environmental prec	autions	
Prevent entry to sewers and pu	blic waters.	
6.3. Methods and materi	al for containment and cleaning up	
For containment		ollect 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	ıble	
SECTION 7: Handling a	nd storage	
7.1. Precautions for safe	handling	
Additional hazards when proces		s with care because residual vapors are flammable.
Precautions for safe handling		oking. Take precautionary measures against static discharge. Use only only outdoors or in a well-ventilated area. Avoid breathing ors/spray.
Hygiene measures	: Wash thoroughly afte	r handling.
7.2. Conditions for safe	storage, including any incompatibilities	
Technical measures		dures to avoid static electricity should be followed. Ground/bond equipment. Use explosion-proof electrical equipment.
Storage conditions		ure away from light and moisture.
Incompatible materials	: Heat sources.	
7.3. Specific end use(s)		
No additional information availa		
	controls/personal protection	
8.1. Control parameters		
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	200.0000000000 ppm Central Nervous System impairment.
N-NONANE UNLABELED (1		
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	200.0000000000 ppm Central Nervous System impairment.
8.2. Exposure controls		
Personal protective equipment	: Gloves. Protective cloth	ing. Protective goggles. Self-contained breathing apparatus.
	R R	
Skin and body protection	: Wear suitable protective	e clothing.
Respiratory protection		h inhalation may occur from use, respiratory protection equipment is
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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 compo	onent of this mixture.
Physical state	: Liquid
Appearance	: Liquid.
Molecular mass	: 128.3
Color	: No data available.
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: -53 °C (- 63 °F) - lit
Freezing point	: No data available
Boiling point	: 151 °C (304 °F) - lit
Flash point	: 31.0 °C (87.8 °F) - closed cup
Self ignition temperature	: 205 °C (401 °F)
Decomposition temperature	: No data available
Flammability (solid, gas)	: Flammable liquid and vapor
Vapor pressure	: 12.4 hPa (9.3 mmHg) at 37.7 °C (99.9 °F)
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Water: 0 %
Log Pow	: 5.65
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosive limits	: 0.87 - 2.9 % (V)
	. 0.07 - 2.0 /0 (V)
9.2. Other information	
No additional information available	
SECTION 10: Stability and reactivity	У
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
See storage and expiration date on CoA.	
10.3. Possibility of hazardous reactions	
No additional information available	
10.4. Conditions to avoid	Sporten
Open flame. Overheating. Direct sunlight. Heat	
10.5. Incompatible materials	
No additional information available	
10.6. Hazardous decomposition product	IS Contraction of the second se
May release flammable gases.	
SECTION 11: Toxicological informa	tion
11.1. Information on toxicological effect	
Acute toxicity	: Harmful if inhaled.
•	
P-N-NONYLPHENOL DIETHOXYLATE UNL ATE (dust, mist)	ABELED 100 UG/ML IN NONANE 1.500 mg/l/4h
N-NONANE UNLABELED (111-84-2)	
LC50 inhalation rat (mg/l)	23760 mg/m ³ male - 4 h
L(CE) inholotion rot (nom)	2200 ppm/4b

LC50 inhalation rat (ppm)

3200 ppm/4h

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ATE (gases)	3200.000 ppmV/4h
ATE (vapors)	11.000 mg/l/4h
ATE (dust, mist)	23.760 mg/l/4h
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause drowsiness or dizziness.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: May be fatal if swallowed and enters airways.
Potential Adverse human health effects and symptoms	: Harmful if inhaled.
Symptoms/injuries after inhalation	: Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled. May cause drowsiness or dizziness.
Symptoms/injuries after skin contact	: Causes skin irritation.

SECTION 12: Ecological information	
12.1. Toxicity	
No additional information available	
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
P-N-NONYLPHENOL DIETHOXYLATE UNLABE	LED 100 UG/ML IN NONANE
Log Pow	5.65
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 assessment	
No additional information available	
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Waste disposal recommendations :	Dispose of contents/container to Comply with applicable regulations.
Additional information :	Handle empty containers with care because residual vapors are flammable.
SECTION 14: Transport information	
In accordance with ADR / RID / ADNR / IMDG / ICA	AO / IATA
14.1. UN number	
UN-No.(DOT) :	1920
DOT NA no.	UN1920
14.2. UN proper shipping name	
DOT Proper Shipping Name :	Nonanes
	3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

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Hazard labels (DOT)	: 3 - Flammable liquid
	3
Packing group (DOT)	: III - Minor Danger
DOT Special Provisions (49 CFR 172.102)	 B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the 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); Composi (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liqu 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 Ta 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
14.3. Additional information	
Other information	: No supplementary information available.
Overland transport	
Packing group (ADR)	: III
Class (ADR)	: 3 - Flammable liquid
Hazard identification number (Kemler No.)	: 30
Classification code (ADR)	: F1
Danger labels (ADR)	: 3 - Flammable liquids
	3
Orange plates	30 1920
Tunnel restriction code	: D/E
Limited quantities (ADR)	5L
EAC	: 3Y
Excepted quantities (ADR)	: E1
Transport by sea	
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
MFAG-No	: 128
Air transport	
DOT Quantity Limitations Passenger aircraft/rail (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.
30/11/2015	EN (English US)
50/11/2015	LIN (LIIYIISH US)

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14.5.	Special precautions for user	
14.6.	Transport in bulk according to Ann	ex II of MARPOL 73/78 and the IBC Code
Not app	licable	
SECT	ION 15: Regulatory informatio	n
15.1. U	S Federal regulations	
N-NO	NANE UNLABELED (111-84-2)	
SARA	Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard

15.2. International regulations

CANADA

No additional information available

15.2.1. National regulations

No additional information available

15.3. US State regulations

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

Full text of R-, H- and EUH-phrases::

Acute Tox. 4 (Inhalation:dust,mist)Acute toxicity (inhalation:dust,mist) Category 4Acute Tox. 4 (Inhalation:vapour)Acute toxicity (inhalation:vapour) Category 4Asp. Tox. 1Aspiration hazard Category 1Eye Irrit. 2Serious eye damage/eye irritation Category 2Flam. Liq. 3Flammable liquids Category 3Resp. Sens. 1Respiratory sensitisation Category 1Skin Irrit. 2skin corrosion/irritation Category 2STOT SE 3Specific target organ toxicity (single exposure) Category 3TOT SE 3Specific target organ toxicity (single exposure) Category 3H226Flammable liquid and vaporH304May be fatal if swallowed and enters airwaysH315Causes skin irritationH322Harmful if inhaledH334May cause allergy or asthma symptoms or breathing difficulties if inhaH335May cause respiratory irritation
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H332Harmful if inhaledH334May cause allergy or asthma symptoms or breathing difficulties if inhaH335May cause respiratory irritation
H334May cause allergy or asthma symptoms or breathing difficulties if inhaH335May cause respiratory irritation
H335 May cause respiratory irritation
H336 May cause drowsiness or dizziness
R10 Flammable
R20 Harmful by inhalation
R36/37/38 Irritating to eyes, respiratory system and skin
R38 Irritating to skin
R42 May cause sensitization by inhalation
R65 Harmful: may cause lung damage if swallowed
R67 Vapors may cause drowsiness and dizziness
Xi Irritant
Xn Harmful

P-N-NONYLPHENOL DIETHOXYLATE UNLABELED 100 UG/ML IN NONANE ULM-4521-S

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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