

PARLAR 44 UNLABELED 10 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: 07/08/2014

Revision date:

Version: 1.0

:

ULM-9432-S

SECTION 1: Identification of the su	bstance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Mixtures
Product name.	: PARLAR 44 UNLABELED 10 UG/ML IN NONANE
Product name.	: ULM-9432-S
	ostance or mixture and uses advised against
1.2.1. Relevant identified uses	
Industrial/Professional use spec	: For professional use only.
1.2.2. Uses advised against	
No additional information available	
1.3. Details of the supplier of the safety	y data sheet
Cambridge Isotope Laboratories, Inc.	
50 Frontage Road	
Andover, MA 01810 USA	
USA USA: 1-800-322-1174 Int: 1-978-749-8000	
<u>cilsales@isotope.com</u> www.isotope.com	
Emergency telephone number	
Emergency numbers:	
Chemtrec: 1-800-424-9300 (24 hours) International: 1-202-483-7616 (24 hours)	
SECTION 2: Hazards identification	
2.1. Classification of the substance or	mixture
Classification according to Regulation (EC)	No. 1272/2008 [CLP]
Flam. Liq. 3	H226
Acute Tox. 4 (Inhalation:dust,mist)	H332
Skin Irrit. 2	H315
Eye Irrit. 2	H319
STOT SE 3	H336
Asp. Tox. 1	H304
Full text of H-phrases: see section 16	
Classification according to Directive 67/548/	/EEC or 1999/45/EC
Xn; R20	
Xn; R65 R10	
Full text of R-phrases: see section 16	
Classification (GHS-US)	
Flam. Liq. 3	H226
Acute Tox. 4 (Inhalation:dust,mist)	H332
Skin Irrit. 2	H315
Eye Irrit. 2A STOT SE 3	H319 H336
Asp. Tox. 1	H304

Adverse physicochemical, human health and environmental effects

No additional information available

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2.2. Label elements

Hazard pictograms (CLP)



Signal word (CLP) Hazardous ingredients Hazard statements (CLP)

Precautionary statements (CLP)

- : Danger
- : N-NONANE UNLABELED
- : 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
- : 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, ventilating, lighting 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

GH3-03 labeling	
Hazard pictograms (GHS-US)	
	GHS02 GHS07 GHS08
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+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 P312 - Call a POISON CENTER/doctor/physician if you feel unwell P312 - Call a POISON CENTER/doctor/physician if you feel unwell P312 - Call a POISON CENTER/doctor/physicia if you feel unwell P312 - 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 P337+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 container tightly closed P403+P235 - Store in a well-ventilated place. Keep container tightly closed P403+P235 - Store in a well-ventilated place. Keep container tightly closed

P405 - Store locked up

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

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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 of	n 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 (Unlabeled) (EC no)203-913-4	99.9986	R10 Xn; R20 Xn; R65 R67
2-EXO,5,5,8,9,9,10,10-OCTACHLOROBORNANE UNLABELED PARLAR 44	(CAS No)165820-17-7 (Unlabeled)	0.0014	Not classified
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
N-NONANE UNLABELED	(CAS No)111-84-2 (Unlabeled) (EC no)203-913-4	99.9986	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-EXO,5,5,8,9,9,10,10-OCTACHLOROBORNANE UNLABELED PARLAR 44	(CAS No)165820-17-7 (Unlabeled)	0.0014	Not classified
Name	Product identifier	%	Classification (GHS-US)
N-NONANE UNLABELED	(CAS No)111-84-2 (Unlabeled)	99.9986	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H336 Asp. Tox. 1, H304

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

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
First-aid measures after inhalation	: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor/physician if you feel unwell.
First-aid measures after skin contact	: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Wash with plenty of soap and water. Get medical advice/attention. Specific treatment (see Hazard pictograms (CLP) on this label).
First-aid measures after eye contact	: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
First-aid measures after ingestion	: Immediately call a POISON CENTER or doctor/physician.
4.2. Most important symptoms and effe	cts, both acute and delayed
Symptoms/injuries after inhalation	: Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled. May cause drowsiness or dizziness.
Symptoms/injuries after skin contact	: Causes skin irritation.
Symptoms/injuries after eye contact	: Causes eye irritation.
Symptoms/injuries after ingestion	: May be fatal if swallowed and enters airways.
4.3. Indication of any immediate medica	I attention and special treatment needed
No additional information available	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
suitable extinguishing media	: Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

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5.2. Special hazards arising from the su	bstance or mixture
Fire hazard	: Flammable liquid and vapor.
Explosion hazard	: May form flammable/explosive vapor-air mixture.
5.3. Advice for firefighters	
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release mea	sures
6.1. Personal precautions, protective eq	uipment and emergency procedures
General measures	: Remove ignition sources. Use special care to avoid static electric charges. No naked lights. No smoking.
6.1.1. For non-emergency personnel	
No additional information available	
6.1.2. For emergency responders	
Protective equipment	: Avoid breathing dust, mist or spray.
6.2. Environmental precautions	
	so. Do not let product enter drains. Discharge into the environment must be avoided.
6.3. Methods and material for containme No additional information available	an and dealing up
6.4. Reference to other sections	
No additional information available	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed	: Handle empty containers with care because residual vapors are flammable.
Precautions for safe handling	: No naked lights. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools. Use only outdoors or in a well-ventilated area. Avoid breathing dust, mist or
	spray.
Hygiene measures	: Wash Both hands thoroughly after handling.
7.2. Conditions for safe storage, includi	ng any incompatibilities
Technical measures	 Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical equipment.
Storage conditions	: Store at room temperature away from light and moisture.
Incompatible materials	: Heat sources.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/pers	onal protection
8.1. Control parameters	
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N-NONANE UNLABELED (111-84-2 (Unlabe	
Italy - Portugal- USA ACGIH ACGIH TWA (ppm) 200.000000000 ppm Central Nervous System impairment.
	таппен.
8.2. Exposure controls	
Personal protective equipment	: Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.
	M R COR
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

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

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according to Regulation (EC) No. 453/2010 and accordi	ing to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulation
Appearance	: Liquid.
Molecular mass	: 128.3
Color	: No data available.
Odor	: No data available
Odor threshold	: No data available
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: -53 °C (- 63 °F) - lit
Freezing point	: No data available
Boiling point	: 151 °C (304 °F) - lit
Flash point	: 31.0 °C (87.8 °F) - closed cup
Self ignition temperature	: 205 °C (401 °F)
Decomposition temperature	: No data available
Flammability (solid, gas)	: Flammable liquid and vapor
Vapor pressure	: 12.4 hPa (9.3 mmHg) at 37.7 °C (99.9 °F)
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Water: 0 %
Log Pow	: 5.65
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosive limits	: 0.87 - 2.9 % (V)
9.2. Other information	
No additional information available	
SECTION 10: Stability and reactivity	y
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	
Open flame. Overheating. Direct sunlight. Heat	. Sparks.
10.5. Incompatible materials	
No additional information available	
10.6. Hazardous decomposition product	ts
May release flammable gases.	
SECTION 11: Toxicological informa	tion
11.1. Information on toxicological effect	
	. Uswaful finkalad

Acute	toxicity
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: Harmful if inhaled.

PARLAR 44 UNLABELED 10 UG/ML IN NONANE		
1.500 mg/l/4h		
N-NONANE UNLABELED (111-84-2 (Unlabeled))		
3200 ppm/4h		
1.500 mg/l/4h		
: Causes skin irritation.		
: Causes serious eye irritation.		
: Not classified		
: Not classified		
: Not classified		
_		

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Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause drowsiness or dizziness.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: May be fatal if swallowed and enters airways.
Potential Adverse human health effects and symptoms	: Harmful if inhaled.
Symptoms/injuries after inhalation	: Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled. May cause drowsiness or dizziness.
Symptoms/injuries after skin contact	: Causes skin irritation.
Symptoms/injuries after eye contact	: Causes eye irritation.
Symptoms/injuries after ingestion	: May be fatal if swallowed and enters airways.

SECTION 12: Ecological information		
12.1. Toxicity		
No additional information available		
12.2. Persistence and degradability		
2-EXO,5,5,8,9,9,10,10-OCTACHLOROBORNANE UNLABELED PARLAR 44 (165820-17-7 (Unlabeled))		
Persistence and degradability	Not available.	
N-NONANE UNLABELED (111-84-2 (Unlabeled))		
Persistence and degradability	Not available.	
12.3. Bioaccumulative potential		
12.3. Bioaccumulative potential PADLAP 44 UNLAPELED 10 UC/ML IN NONANE		

PARLAR 44 UNLABELED 10 UG/ML IN NONANE		
Log Pow	5.65	
2-EXO,5,5,8,9,9,10,10-OCTACHLOROBORNANE UNLABELED PARLAR 44 (165820-17-7 (Unlabeled))		
Bioaccumulative potential	Not available.	
N-NONANE UNLABELED (111-84-2 (Unlabeled))		
Log Pow	5.65	
Bioaccumulative potential	Indication of bioaccumulation.	

12.4. Mobility in soil

2-EXO,5,5,8,9,9,10,10-OCTACHLOROBORNANE UNLABELED PARLAR 44 (165820-17-7 (Unlabeled))		
Ecology - soil	Not available.	
N-NONANE UNLABELED (111-84-2 (Unlabeled))		
Ecology - soil	Not available.	
12.5. Results of PBT and vPvB assessment		
No additional information available		
12.6. Other adverse effects		
No additional information available		
SECTION 13: Disposal considerations		
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.	
Waste disposal recommendations	Dispose of contents/container to Comply with applicable regulations.	
Additional information :	Handle empty containers with care because residual vapors are flammable.	
Ecology - waste materials	Hazardous waste due to toxicity.	

SECTION 14: Transport information				
In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA				
14.1.	UN number			
UN-No.(D	OT) :	: 1920		
DOT NA r	10.	UN1920		

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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)	 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
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
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
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14.4.	Environmental hazards	
Other in	nformation	: 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 app	blicable	
SECT	ION 15: Regulatory information	
15.1. U	S Federal regulations	
PARLAR 44 UNLABELED 10 UG/ML IN NONANE		
SARA	Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard
N-NONANE UNLABELED (111-84-2 (Unlabeled))		
SARA	Section 311/312 Hazard Classes	Fire hazard

Immediate (acute) health hazard

15.2. International regulations

CANADA

PARLAR 44 UNLABELED 10 UG/ML IN NONANE Listed on the Canadian DSL (Domestic Substances List) inventory.

15.2.1. National regulations

No additional information available

15.3. US State regulations	
PARLAR 44 UNLABELED 10 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 (Unlabeled))	
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	

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.

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

Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Asp. Tox. 1	Aspiration hazard Category 1
Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Flam. Liq. 3	Flammable liquids Category 3
Skin Irrit. 2	skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H226	Flammable liquid and vapor
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
R10	Flammable
R20	Harmful by inhalation
R65	Harmful: may cause lung damage if swallowed
R67	Vapors may cause drowsiness and dizziness
Xn	Harmful
741	Tarma

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