

ANTHRACENE (13C6, 99%) 100 UG/ML IN NONANE

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: 19/04/2022
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 :
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 CLM-1333-S

SECTION 1. Identif	fication of the substance/mixture and of the company/undertaking	
1.1. Product identi		
Product form	: Mixtures	
Product name	: ANTHRACENE (13C6, 99%) 100 UG/ML IN NONANE	
Product code	: CLM-1333-S	
	tified uses of the substance or mixture and uses advised against	
1.2.1. Relevant iden		
Main use category	: Professional use	
Industrial/Professional us	se 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 Labo	ratories, Inc.	
50 Frontage Road Andover, MA 01810		
USA		
USA: 1-800-322-1174	Int: 1-978-749-8000	
cilsales@isotope.com	www.isotope.com	
Emergency te	lephone number	
Emergency numbers:		
Chemtrec: 1-800-424-93 International: 1-703-741		
SECTION 2: Hazard	ds identification	
2.1. Classification	of the substance or mixture	
Classification accordin	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 hazard classe	es and H-statements : see section 16	
Classification accordin	g 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		
Full text of R-phrases: se		
Full text of R-phrases: se		
GHS-US classification Flam. Liq. 3	H226	
GHS-US classification Flam. Liq. 3 Acute Tox. 4 (Inhalation)	H226 H332	
Full text of R-phrases: se		
GHS-US classification Flam. Liq. 3	H226	

STOT SE 3 H336 Asp. Tox. 1 H304

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

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22 Label elements Labeling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP) GHS02 GHS08 GHS07 Signal word (CLP) : Danger : H226 - Flammable liquid and vapor Hazard statements (CLP) 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 Precautionary statements (CLP) 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/vapors/spray. P264 - Wash hands, forearms and face thoroughly after handling. P271 - Use only outdoors or in a well-ventilated area. P280 - Wear protective gloves/protective clothing/eye protection/face protection. **GHS-US** labeling Hazard pictograms (GHS-US) GHS02 GHS08 GHS07 Signal word (GHS-US) : Danger : H226 - Flammable liquid and vapor Hazard statements (GHS-US) 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/sparks/open flames/hot surfaces. - No smoking. P233 - Keep container tightly closed. P240 - Ground/Bond container and receiving equipment P241 - Use explosion-proof electrical/ventilating/lighting 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 protective gloves/protective clothing/eye protection/face protection. P301+P310 - If swallowed: Immediately call a poison center or doctor 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 poison center or doctor if you feel unwell P321 - Specific treatment (see supplemental first aid instruction on this label) P331 - 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+P364 - Take off contaminated clothing and wash it before reuse. P370+P378 - In case of fire: Use media other than water to extinguish. P403+P233 - Store in a well-ventilated place. Keep container tightly closed. P403+P235 - Store in a well-ventilated place. Keep cool. P405 - Store locked up. P501 - Dispose of contents/container to hazardous or special waste collection point, in

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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
ANTHRACENE (13C6, 99%)	(CAS-No.) 189811-60-7 (EC Index-No.) 204-371-1 (Unlabeled)	0.014	Carc.Cat.1; R45 Carc.Cat.1; R49 Xi; R36/38 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
ANTHRACENE (13C6, 99%)	(CAS-No.) 189811-60-7 (EC Index-No.) 204-371-1 (Unlabeled)	0.014	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Carc. 1A, H350 Aquatic Chronic 1, H410
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
ANTHRACENE (13C6, 99%)	(CAS-No.) 189811-60-7	0.014	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Carc. 1A, H350 Aquatic Chronic 1, H410

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.
4.2. Most important symptoms and effe	cts, both acute and delayed
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.

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4.3. Indication of any immediate me	dical attention and special treatment neede	ed
Treat symptomatically.		
SECTION 5: Firefighting measure	es	
5.1. Extinguishing media		
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carl	bon dioxide. Alcohol resistant foam.
5.2. Special hazards arising from the	e substance or mixture	
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		suitable protective equipment. Self-contained breathing
SECTION 6: Accidental release m	neasures	
6.1. Personal precautions, protectiv	e equipment and emergency procedures	
6.1.1. For non-emergency personnel		
Emergency procedures		Ventilate spillage area. No open flames, no sparks, and as, mist, spray, vapors. Avoid contact with skin and eyes.
6.1.2. For emergency responders		
Protective equipment	: Do not attempt to take action without refer to section 8: "Exposure controls,	suitable protective equipment. For further information /personal protection".
6.2. Environmental precautions		
Prevent entry to sewers and public waters. A	Avoid release to the environment.	
6.3. Methods and material for contain	inment and cleaning up	
For containment	: Dike and contain spill. Dispose as ha	zardous waste. Comply with local regulations for disposal.
Methods for cleaning up	: Take up liquid spill into absorbent ma waters.	terial. Notify authorities if product enters sewers or public
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 storag	e	
7.1. Precautions for safe handling		
Additional hazards when processed		othing. Keep away from sources of ignition - No smoking. y (appropriate wording to be specified by the easures against static discharges.
Precautions for safe handling	smoking. Ground/bond container and precautionary measures against stati container. Use explosion-proof equip	parks, open flames and other ignition sources. No receiving equipment. Use only non-sparking tools. Take c discharge. Flammable vapors may accumulate in the ment. Wear personal protective equipment. Use only Avoid breathing fume, gas, mist, spray, vapors. Avoid
Hygiene measures	: Wash contaminated clothing before re Always wash hands after handling the	euse. Do not eat, drink or smoke when using this product. e product.
7.2. Conditions for safe storage, inc		
Technical measures	and receiving equipment.	container tightly closed. Keep dry. Ground/bond container
Storage conditions	: Store at room temperature away from	light and moisture.
7.3. Specific end use(s)		
No additional information available		
SECTION 8: Exposure controls/p	ersonal protection	
8.1. Control parameters		
ANTHRACENE (13C6, 99%) 100 UG/ML		-
Italy - Portugal - USA ACGIH ACGIH TV		200.00000000 ppm USA. ACGIH Threshold Limit Values (TLV)
Italy Dortygol USA ACCILL Domorty (A		CNC impoir

Italy - Portugal - USA ACGIH

CNS impair

Remark (ACGIH)

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ANTHRACENE (13C6, 99%) 1	100 UG/ML IN NONANE	
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/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.
ANTHRACENE (13C6, 99%) ((189811-60-7)	
Italy - Portugal - USA ACGIH	Remark (ACGIH)	Component: anthracene CAS # 120-12-7 Parameters 1 Hydroxypyr ene Value - 2.5 µg/l Biological Specimen - Urine Basis - ACGIH Biological Exposure Indices (BEI) Remarks : End of shift at end of workweek Parameters - 3- hydroxyben zo(a)pyrene Biological Specimen - Urine Basis - ACGIH Biological Exposure Indices (BEI) Remarks : End of shift at end of workweek Parameters
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	0.1 mg/m ³ USA. NIOSH Recommended Exposure Limits Potential Occupational Carcinogen
USA OSHA	OSHA PEL (TWA) (mg/m³)	0.2 mg/m ³ USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
USA OSHA	OSHA PEL (Ceiling) (mg/m ³)	0.2 mg/m ³ California permissible exposure limits for chemical contaminants (Title 8, Article 107)
USA OSHA	Remark (OSHA)	OSHA specifically regulated carcinogen

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.



: 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.

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Materials for protective clothing

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Respiratory protection	: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Approved respirator.
Environmental exposure controls	: Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and	chemical properties		
The properties listed below are for the solvent, the main component of this mixture.			
Physical state	: Liquid		
Appearance	: Liquid		
Molecular mass	: 128.3 g/mol		
Color	: Colorless		
Odor	: No data available		
Odor threshold	: No data available		
рН	: No data available		
Relative evaporation rate (butyl acetate=1)	: No data available		
Melting point	: Not applicable		
Freezing point	: -53 °C (- 63 °F) - lit		
Boiling point	: 340 °C (644 °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		
Lower Explosion limits (LEL)	: 0.87 - 2.9 % (V)		

Other information 9.2.

No additional information available

SECT	ION 10: Stability and reactivity			
10.1.	Reactivity			
	Flammable liquid and vapor. Vapors may form flammable mixture with air.			
10.2.	Chemical stability			
	rage and expiration date on CoA.			
10.3.				
10.3. Possibility of hazardous reactions No dangerous reactions known under normal conditions of use. Image: Condition 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 to	oxicity	: Inhalation: Harmful if inhaled.		
ANTHRACENE (13C6, 99%) 100 UG/ML IN NONANE				
LC50	inhalation rat (mg/l)	23760 mg/m ³ male - 4 h		
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ANTHRACENE (13C6, 99%) 100 UG/ML IN N	ONANE		
ATE CLP (vapors)	11.000 mg/l/4h		
Skin corrosion/irritation, Dermal, rat	Result: Skin Irritation (Draize Test)		
Additional information	: S. Typhimurium Result: negative		
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		
ANTHRACENE (13C6, 99%) (189811-60-7)			
LD50 oral rat	> 16000 mg/kg - male and female - Remarks: (ECHA) Symptoms: Nausea, Diarrhea, gastric pain		
LD50 dermal rat	> 1320 mg/kg - male and female		
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	on
12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
ANTHRACENE (13C6, 99%) (189811-60-7)	
LC50 fish 1	0.002 mg/l flow-through test LC50 - Lepomis macrochirus (Bluegill) - 96.0 h Remarks: (ECHA)
LC50 other aquatic organisms 1	0.036 mg/l static test LC50 - Daphnia magna (Water flea) - 48 h (OECD Test Guideline 202)

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12.2. Persistence and degradability	
ANTHRACENE (13C6, 99%) (189811-60-7)	
Persistence and degradability	Biodegradability aerobic - Exposure time 28 d Result: 3.6 % - Not readily biodegradable. (OECD Test Guideline 302C).
12.3. Bioaccumulative potential	
ANTHRACENE (13C6, 99%) 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.
ANTHRACENE (13C6, 99%) (189811-60-7)	
Bioconcentration factor (BCF REACH)	Bioaccumulation - Cyprinus carpio (Carp) - 42 d at 25 °C - 0.015 mg/l(anthracene) Bioconcentration factor (BCF): 2,615 (OECD Test Guideline 305)
Log Pow	4.65 at ca.20 °C (ca.68 °F)

Bioaccumulation - Cyprinus carpio (Carp) - 42 d.

Bioaccumulative potential

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12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB assessme	nnt
No additional information available	אונ
12.6. Other adverse effects	-
Other adverse effects	: Disposal must be done according to official regulations.
SECTION 13: Disposal consideration	ns
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.
SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / IATA / A	DN
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 LIQUID
Packing group (DOT)	: III - Minor Danger
DOT Special Provisions (49 CFR 172.102)	 In Finite Darger 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	
Emergency Response Guide (ERG) Number	: 128
Other information	: No supplementary information available.
Overland transport	
Hazard identification number (Kemler No.)	: 30
Orange plates	30 1920
Tunnel restriction code (ADR)	: D/E
Limited quantities (ADR)	51
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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**

: 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

Other information

SECTION 15: Regulatory information	
15.1. US Federal regulations	
ANTHRACENE (13C6, 99%) 100 UG/ML IN NO	NANE
Listed on the United States TSCA (Toxic Substa	nces 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 Substa	nces 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.
ANTHRACENE (13C6, 99%) (189811-60-7)	
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	Immediate (acute) health hazard Delayed (chronic) health hazard
SARA Section 313 - Emission Reporting	Subject to reporting requirements of United States SARA Section 313

15.2. International regulations

CANADA
ANTHRACENE (13C6, 99%) 100 UG/ML IN NONANE
Listed on the Canadian DSL (Domestic Substances List)
N-NONANE UNLABELED (111-84-2)
Listed on the Canadian DSL (Domestic Substances List)

15.2.1. National regulations

No additional information available

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

15.3. US State regulations				
ANTHRACENE (13C6, 99%) 100 UG/ML IN NONANE()			
U.S California - Proposition	n 65 - Carcinogens List	No		
U.S California - Proposition Toxicity	n 65 - Developmental	No		
U.S California - Proposition Toxicity - Female	n 65 - Reproductive	No		
U.S California - Proposition Toxicity - Male	n 65 - Reproductive	No		
State or local regulations		U.S Idaho - Non-Carcinogeni RTK - U.S New Jersey - Righ RTK - U.S Massachusetts - F RTK - U.S Pennsylvania - RT U.S New York - Reporting of	ht to Know Hazardous Substar Right To Know List ΓK (Right to Know) List	nce List
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	
ANTHRACENE (13C6, 99%) (189811-60-7)			
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 Idaho - Non-Carcinoge RTK - U.S New Jersey - R RTK - U.S Massachusetts RTK - U.S Pennsylvania - U.S New York - Reporting	ight to Know Hazardous Sub - Right To Know List RTK (Right to Know) List		าร	
ANTHRACENE (13C6, 99%) (189811-60-7)			
State or local regulations				
RTK - U.S Pennsylvania - RTK - U.S New Jersey - R	RTK (Right to Know) List ight to Know Hazardous Sub	ostance 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:

Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
Acute Tox. 4 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 4
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Asp. Tox. 1	Aspiration hazard Category 1
Carc. 1A	Carcinogenicity Category 1A
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
H350	May cause cancer

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H410	Very toxic to aquatic life with long lasting effects
R10	Flammable
R20	Harmful by inhalation
R36/38	Irritating to eyes and skin
R45	May cause cancer
R49	May cause cancer by inhalation
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
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

: 0 - Material that in themselves are normally stable, even

Hazard Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 3 Serious Hazard
Physical	: 0 Minimal Hazard

temperature conditions.

under fire conditions.

CIL Mixture SDS

NFPA reactivity

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

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