

# 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: 27/03/2018 Revision date: : Version: 1.0

ULM-7413-S

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixtures

Product name : ACENAPHTHENE UNLABELED STANDARD 200 UG/ML IN ISOOCTANE

Product code : ULM-7413-S

#### 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: 1-978-749-8000 <a href="mailto:cilsales@isotope.com">cilsales@isotope.com</a> www.isotope.com

#### Emergency telephone number

Emergency numbers:

Chemtrec: 1-800-424-9300 (24 hours) International: 1-703-741-5970 (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. 2 H225
Skin Irrit. 2 H315
STOT SE 3 H336
Asp. Tox. 1 H304
Aquatic Acute 1 H400
Aquatic Chronic 1 H410

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

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

Xi; R38 N; R50/53 R67 F; R11 Xn; R65

Full text of R-phrases: see section 16

#### **GHS-US** classification

Flam. Liq. 2 H225 Skin Irrit. 2 H315 STOT SE 3 H336 Asp. Tox. 1 H304 Aquatic Acute 1 H400 Aquatic Chronic 1 H410

Full text of H statements : see section 16

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#### Adverse physicochemical, human health and environmental effects

Liver, Kidney. Highly flammable liquid and vapour. May cause drowsiness or dizziness. Causes skin irritation. May be fatal if swallowed and enters airways. Very toxic to aquatic life with long lasting effects.

#### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)









GHS08

GHS07

Signal word (CLP) : Danger

Hazard statements (CLP) : H225 - Highly flammable liquid and vapour

H304 - May be fatal if swallowed and enters airways

H315 - Causes skin irritation

H336 - May cause drowsiness or dizziness

H410 - Very toxic to aquatic life with long lasting effects

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, spray, vapours P264 - Wash hands, forearms and face thoroughly after handling

P271 - Use only outdoors or in a well-ventilated area

P273 - Avoid release to the environment

#### **GHS-US** labelling

Hazard pictograms (GHS-US)









Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H225 - Highly flammable liquid and vapour

H304 - May be fatal if swallowed and enters airways

H315 - Causes skin irritation

H336 - May cause drowsiness or dizziness

H410 - Very toxic to aquatic life with long lasting effects

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, vapours P264 - Wash hands, forearms and face thoroughly after handling

P271 - Use only outdoors or in a well-ventilated area

P273 - Avoid release to the environment

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

P312 - Call a doctor, a POISON CENTER if you feel unwell

P321 - Specific treatment (see Hazardous component(s) for labelling on this label)

P331 - Do NOT induce vomiting

P332+P313 - If skin irritation occurs: Get medical advice/attention P362+P364 - Take off contaminated clothing and wash it before reuse

P370+P378 - In case of fire: Use alcohol resistant foam, carbon dioxide (CO2), dry

extinguishing powder to extinguish

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P391 - Collect spillage

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 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

3.2. Mixtures			
Name	Product identifier	%	Classification according to Directive 67/548/EEC
ISOOCTANE UNLABELED	(CAS No) 540-84-1 (EC No) 208-759-1 (EC Index No) 601-009-00-8 (REACH-no) 01-2119457965-22	99.971	Xi; R38 N; R50/53 R67 F; R11 Xn; R65
ACENAPHTHENE UNLABELED	(CAS No) 83-32-9 (EC No) 201-469-6	0.029	Xi; R36/37/38 N; R50/53
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
ISOOCTANE UNLABELED	(CAS No) 540-84-1 (EC No) 208-759-1 (EC Index No) 601-009-00-8 (REACH-no) 01-2119457965-22	99.971	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
ACENAPHTHENE UNLABELED	(CAS No) 83-32-9 (EC No) 201-469-6	0.029	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Name	Product identifier	%	GHS-US classification
ISOOCTANE UNLABELED	(CAS No) 540-84-1	99.971	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
ACENAPHTHENE UNLABELED	(CAS No) 83-32-9	0.029	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335

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

# **SECTION 4: First aid measures**

First sides as a second

First-aid measures general

First-aid measures after inhalation

First-aid measures after skin contact

First-aid measures after eye contact

First-aid measures after ingestion

- : If medical advice is needed, have product container or label at hand. Call a physician immediately. Evacuate danger area.
- : Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Call a doctor.

Aquatic Acute 1, H400 Aquatic Chronic 1, H410

- : Rinse skin with water/shower. Take immediately victim to hospital. Remove/Take off immediately all contaminated clothing. If skin irritation occurs: Get medical advice/attention.
- : Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- : Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth. Call a physician immediately.

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#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : May cause drowsiness or dizziness.

Symptoms/injuries after inhalation : May be fatal if swallowed and enters airways. May cause drowsiness or dizziness.

Symptoms/injuries after skin contact : May be harmful in contact with skin. Causes skin irritation.

Symptoms/injuries after eye contact : May cause eye irritation.

Symptoms/injuries after ingestion : May be fatal if swallowed and enters airways. May result in aspiration into the lungs, causing

chemical pneumonia. Risk of lung oedema.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

#### SECTION 5: Fire-fighting measures

# 5.1. Extinguishing media

Suitable extinguishing media : Flood fire area with water from a distance. Water spray. Dry powder. Foam. Carbon dioxide.

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard : Highly flammable liquid and vapour.

Explosion hazard : Flash back possible over important distance.

Reactivity : Vapours may form flammable mixture with air. Highly flammable liquid and vapour.

#### 5.3. Advice for firefighters

Firefighting instructions : Wear a self contained breathing apparatus.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Do

not attempt to take action without suitable protective equipment. Self-contained breathing

apparatus. Complete protective clothing.

Other information : Use water spray to cool exposed surfaces.

#### **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

**Emergency procedures** 

: Ventilate spillage area. Use personal protective equipment as required. Remove all sources of ignition. Ensure adequate air ventilation. Provide adequate ventilation to minimize dust and/or vapour concentrations. No open flames, no sparks, and no smoking. Avoid breathing gas, mist, vapours. Avoid contact with skin and eyes. Evacuate danger area. Special attention should be given to low areas/pits where flammable vapours can accumulate.

# 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 precautions

Stop leak without risks if possible. Prevent entry to sewers and public waters. Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

For containment

: Vacuum with an equipment that avoids ignition risk. This material and its container must be disposed of in a safe way, and as per local legislation. Collect spillage.

Methods for cleaning up

: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters. This material and its container must be disposed of in a safe way, and as per local legislation.

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.
- Precautions for safe handling
- : 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 vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Use only

outdoors or in a well-ventilated area. Avoid breathing vapours, mist. Avoid contact with skin and eyes

Hygiene measures

: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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#### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Keep dry. Store in tightly closed, leak-proof containers which are opened should be

properly resealed and kept upright to prevent leakage. 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

# **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

ACENAPHTHENE UNLABELED STANDARD 200 UG/ML IN ISOOCTANE			
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	300.00000000 ppm Basis: USA. ACGIH Threshold Limit Values (TLV)	
Italy - Portugal - USA ACGIH	Remark (ACGIH)	Upper Respiratory Tract irritation	
ISOOCTANE UNLABELED (540-84-1)			
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	300.00000000 ppm Basis: USA. ACGIH Threshold Limit Values (TLV)	
Italy - Portugal - USA ACGIH	Remark (ACGIH)	Upper Respiratory Tract irritation	

#### 8.2. Exposure controls

Appropriate engineering controls : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work. Ensure good ventilation of the work station.

Personal protective equipment : Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.









Materials for protective clothing : Wear suitable protective clothing and gloves. Hand protection : Wear suitable protective clothing and gloves.

Eye protection : Wear eye protection. Chemical goggles or face shield with safety glasses. Safety glasses.

Skin and body protection : Wear suitable protective clothing, gloves and eye/face protection.

Respiratory protection : In case of inadequate ventilation wear respiratory protection. Approved supplied air 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 : 114.23 g/mol Colour : Colourless Odour No data available Odour threshold : No data available : No data available Relative evaporation rate (butylacetate=1) : No data available : -107 °C (-161 °F) Melting point Freezing point : No data available

Boiling point : 98 - 99 °C (208 - 210 °F) at 1,013 hPa (760 mmHg)

Flash point : -12 °C (10 °F) - closed cup

Auto-ignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : Not applicable

Vapour pressure : 55 hPa (41 mmHg) at 21 °C (70 °F); 117 hPa (88 mmHg) at 37.8 °C (100.04 °F)

Relative vapour density at 20 °C : 3.94 - (Air = 1.0)

Relative density : No data available

Density : 0.69 g/ml at 20 °C (68 °F)

Solubility : Water: insoluble

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Log Pow : 4.6

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 : 1 - 6 % (V)

#### 9.2. Other information

No additional information available

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Vapours may form flammable mixture with air. Highly flammable liquid and vapour.

#### 10.2. Chemical stability

See storage and expiration date on CoA.

#### 10.3. Possibility of hazardous reactions

Vapours may form explosive mixture with air.

# 10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

#### 10.5. Incompatible materials

Strong oxidizing agents.

#### 10.6. Hazardous decomposition products

Carbon oxides (CO, CO2).

# **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects

Acute toxicity : Not classified

ACENAPHTHENE UNLABELED STANDARD 200 UG/ML IN ISOOCTANE		
LD50 oral rat	> 5000 mg/kg (OECD Test Guideline 401)	
LD50 dermal rabbit	> 2000 mg/kg (OECD Test Guideline 402)	
LC50 inhalation rat (mg/l)	> 33.52 mg/l/4h (OECD Test Guideline 403)	
ACENAPHTHENE UNLABELED (83-32-9)		
Additional information	LD50 Intraperitoneal - Rat - 600 mg/kg	

7 taditional information	2200 mapemental real coomgreg
ISOOCTANE UNLABELED (540-84-1)	
LD50 oral rat	> 5000 mg/kg (OECD Test Guideline 401)
LD50 dermal rabbit	> 2000 mg/kg (OECD Test Guideline 402)
LC50 inhalation rat (mg/l)	> 33.52 mg/l/4h (OECD Test Guideline 403)

Skin corrosion/irritation : Skin. rabbit. Result: Irritating to skin. (OECD 404 method)
Serious eye damage/irritation : Eyes. rabbit. Result: No eye irritation. (OECD 405 method)

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : rat - Unscheduled DNA synthesis

Carcinogenicity : Not classified
Reproductive toxicity : Not available

STOT-single exposure : May cause drowsiness or dizziness
STOT-repeated exposure : Health hazard - Aspiration hazard

No data available

Aspiration hazard : Aspiration hazard

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. Affects the liver.

Symptoms/injuries after inhalation : May be fatal if swallowed and enters airways. May cause drowsiness or dizziness.

Symptoms/injuries after skin contact : May be harmful in contact with skin. Causes skin irritation.

Symptoms/injuries after eye contact : May cause eye irritation.

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Symptoms/injuries after ingestion

: May be fatal if swallowed and enters airways. May result in aspiration into the lungs, causing chemical pneumonia. Risk of lung oedema.

# **SECTION 12: Ecological information**

#### 12.1. Toxicity

ACENAPHTHENE UNLABELED (83-32-9)	
LC50 fish 1	0.67 mg/l Oncorhynchus mykiss (rainbow trout) - 96.0 h
EC50 Daphnia 1	1.27 - 3.45 mg/l Daphnia magna (Water flea) - 48 h
LC50 fish 2	0.6 - 1.73 mg/l Pimephales promelas (fathead minnow) - 96.0 h
ErC50 (algae)	0.52 - 0.53 mg/l Pseudokirchneriella subcapitata (green algae) - 96 h

#### 12.2. Persistence and degradability

ACENAPHTHENE UNLABELED (83-32-9)	
Persistence and degradability	Not available.

#### 12.3. Bioaccumulative potential

ACENAPHTHENE UNLABELED STANDARD 200 UG/ML IN ISOOCTANE		
Log Pow	4.6	
ACENAPHTHENE UNLABELED (83-32-9)		
Log Pow	3.39 - 4.19	
Bioaccumulative potential	Bioccumulation Lepomis macrochirus (Bluegill) - 28 d - 0.00894 mg/l. Bioconcentration factor (BCF): 387.	
ISOOCTANE UNLABELED (540-84-1)		
Log Pow	4.6	

#### 12.4. Mobility in soil

ACENAPHTHENE UNLABELED (83-32-9)	
Ecology - soil	Not available.

#### 12.5. Results of PBT and vPvB assessment

No additional information available

#### 12.6. Other adverse effects

Other adverse effects : Very toxic to aquatic life with long lasting effects. Avoid release to the environment. Disposal must be done according to official regulations.

# **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.

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 / ADN

# 14.1. UN number

UN-No.(DOT) : 1262 DOT NA no. UN1262

#### 14.2. UN proper shipping name

Proper Shipping Name (DOT) : Octanes

Class (DOT) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

Hazard labels (DOT) : 3 - Flammable liquid



Packing group (DOT) : II - Medium Danger

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DOT Special Provisions (49 CFR 172.102) : IB2 - Author

: IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). 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.

T4 - 2.65 178.274(d)(2) Normal...... 178.275(d)(3)

TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / (1 + a (tr - tf)) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during

fillina.

DOT Packaging Exceptions (49 CFR 173.xxx) : 150

DOT Packaging Non Bulk (49 CFR 173.xxx) : 202

DOT Packaging Bulk (49 CFR 173.xxx) : 242

DOT RQ : 1000 lbs

Marine pollutant : No



#### 14.3. Additional information

Emergency Response Guide (ERG) Number : 128

Other information : No supplementary information available.

#### **Overland transport**

Packing group (ADR) : II

Class (ADR) : 3 - Flammable liquid

Hazard identification number (Kemler No.) : 33 Classification code (ADR) : F1

Danger labels (ADR) : 3 - Flammable liquids



Orange plates :

33 1262

Tunnel restriction code (ADR) : D/E
Limited quantities (ADR) 11
EAC code : 3YE
Excepted quantities (ADR) : E2

# Transport by sea

DOT Vessel Stowage Location : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a

passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this

section is exceeded.

MFAG-No : 128

#### Air transport

DOT Quantity Limitations Passenger aircraft/rail : 5 L

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 60 L

CFR 175.75)

Civil Aeronautics Law : Flammable liquids

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#### 14.4. Environmental hazards

Dangerous for the environment



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

ACENAPHTHENE UNLABELED STANDARD 200 UG/ML IN ISOOCTANE			
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporing requirements of the United States SARA Section 302.		
SARA Section 311/312 Hazard Classes	Fire hazard Delayed (chronic) health hazard		
SARA Section 313 - Emission Reporting	Not subject to reporing requirements of the United States SARA Section 313.		
ACENAPHTHENE UNLABELED (83-32-9)			
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 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313		
ISOOCTANE UNLABELED (540-84-1)			
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporing requirements of the United States SARA Section 302.		
SARA Section 311/312 Hazard Classes	Fire hazard Delayed (chronic) health hazard		
SARA Section 313 - Emission Reporting	Not subject to reporing requirements of the United States SARA Section 313.		

# 15.2. International regulations

#### **CANADA**

#### ACENAPHTHENE UNLABELED STANDARD 200 UG/ML IN ISOOCTANE

Listed on the Canadian DSL (Domestic Substances List)

# 15.2.1. National regulations

No additional information available

# 15.3. US State regulations

ACENAPHTHENE UNLABELED STANDARD 200 UG/ML IN ISOOCTANE()		
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 Toxicity - Male	No	
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	

ACENAPHTHENE UNLABELED (83-32-9)				
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	

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ISOOCTANE UNLABELED (540-84-1)				
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	

#### **ACENAPHTHENE UNLABELED (83-32-9)**

#### State or local regulations

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

# **ISOOCTANE UNLABELED (540-84-1)**

#### 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

# **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-statements:

Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1		
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1		
Asp. Tox. 1	Aspiration hazard, Category 1		
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2		
Flam. Liq. 2	Flammable liquids, Category 2		
Skin Irrit. 2	Skin corrosion/irritation, Category 2		
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis		
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation		
H225	Highly flammable liquid and vapour		
H304	May be fatal if swallowed and enters airways		
H315	Causes skin irritation		
H319	Causes serious eye irritation		
H335	May cause respiratory irritation		
H336	May cause drowsiness or dizziness		
H400	Very toxic to aquatic life		
H410	Very toxic to aquatic life with long lasting effects		
R11	Highly flammable		
R36/37/38	Irritating to eyes, respiratory system and skin		
R38	Irritating to skin		
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	Vapours may cause drowsiness and dizziness		
F	Highly flammable		
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.

2 0

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# 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

#### **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

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