

#### 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: 23/10/2017 Revision date: : Version: 1.0

CLM-10315-S

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

1.1. Product identifier

Product form : Mixtures

Product name : 1,2,4-BENZENETRICARBOXYLIC ACID, 1,4-BIS(2-ETHYLHEXYL) ESTER (13C8, 99%) 100

UG/ML IN MTBE

Product code : CLM-10315-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

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

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

F; R11 Xi; R38

Full text of R-phrases: see section 16

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

Flam. Liq. 2 H225 Skin Irrit. 2 H315

Full text of H statements : see section 16

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

central nervous system. kidneys.

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#### 2.2. Label elements

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

Hazard pictograms (CLP)





GHS02

GHS07

Signal word (CLP) : Danger

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

H315 - Causes skin irritation

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 P264 - Wash hands, forearms and face thoroughly after handling

P280 - Wear protective clothing, protective gloves 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

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

Hazard pictograms (GHS-US)





GHS02

GHS07

Signal word (GHS-US) : Danger

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

H315 - Causes skin irritation

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 equipment

P242 - Use only non-sparking tools

P243 - Take precautionary measures against static discharge P264 - Wash hands, forearms and face thoroughly after handling

P280 - Wear eye protection, face protection, protective clothing, protective gloves

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

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

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 Water spray, Alcohol resistant foam, Dry chemical, Carbon

dioxide. to extinguish

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

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

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#### **Mixtures**

Name	Product identifier	%	Classification according to Directive 67/548/EEC
METHYL TERT-BUTYL ETHER UNLABELED	(CAS No) 1634-04-4 (EC No) 216-653-1 (EC Index No) 603-181-00-X (REACH-no) 01-2119452786-27	99.987	F; R11 Xi; R38
1,2,4-BENZENETRICARBOXYLIC ACID, 1,4-BIS(2- ETHYLHEXYL) ESTER (13C8, 99%)	(CAS No) 63468-10-0 (Unlabeled)	0.013	Xn; R22
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
METHYL TERT-BUTYL ETHER UNLABELED	(CAS No) 1634-04-4 (EC No) 216-653-1 (EC Index No) 603-181-00-X (REACH-no) 01-2119452786-27	99.987	Flam. Liq. 2, H225 Skin Irrit. 2, H315
1,2,4-BENZENETRICARBOXYLIC ACID, 1,4-BIS(2- ETHYLHEXYL) ESTER (13C8, 99%)	(CAS No) 63468-10-0 (Unlabeled)	0.013	Acute Tox. 4 (Oral), H302
Name	Product identifier	%	GHS-US classification
METHYL TERT-BUTYL ETHER UNLABELED	(CAS No) 1634-04-4	99.987	Flam. Liq. 2, H225 Skin Irrit. 2, H315
1,2,4-BENZENETRICARBOXYLIC ACID, 1,4-BIS(2-	(CAS No) 63468-10-0 (Unlabeled)	0.013	Acute Tox. 4 (Oral), H302

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

#### **SECTION 4: First aid measures**

ETHYLHEXYL) ESTER (13C8, 99%)

#### **Description of first aid measures**

First-aid measures general

: If you feel unwell, seek medical advice (show the label where possible). Evacuate danger area.

When symptoms occur: go into open air and ventilate suspected area. If not breathing, give First-aid measures after inhalation

artificial respiration. Get medical advice/attention.

First-aid measures after skin contact Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation

occurs: Gently wash with plenty of soap and water, Get immediate medical advice/attention. Get medical advice/attention. Specific treatment (see Hazard pictograms (CLP) on this label).

First-aid measures after eye contact Rinse cautiously with water for several minutes.

First-aid measures after ingestion Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get

medical advice/attention.

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

Symptoms/injuries after inhalation : May be harmful if inhaled. May cause respiratory irritation.

Symptoms/injuries after skin contact : Causes skin irritation. Symptoms/injuries after eye contact : May cause eye irritation. Symptoms/injuries after ingestion : May be harmful if swallowed.

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

No additional information available

#### **SECTION 5: Fire-fighting measures**

#### **Extinguishing media**

: Water spray. dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2). Suitable extinguishing media

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

Fire hazard : Highly flammable liquid and vapour.

: May form flammable/explosive vapour-air mixture. Explosion hazard

: Highly flammable liquid and vapour. May form flammable/explosive vapour-air mixture. Reactivity

#### Advice for firefighters

Firefighting instructions : Fight fire with normal precautions from a reasonable distance. Wear a self contained breathing

apparatus.

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

Other information : Use water spray to cool exposed surfaces.

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

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

General measures : Remove ignition sources. Use special care

: Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.

6.1.1. For non-emergency personnel

Emergency procedures : Use personal protective equipment as required. Avoid breathing vapours, mist, gas. Provide

adequate ventilation to minimize dust and/or vapour concentrations. Avoid dust formation. Evacuate area. Remove all sources of ignition. 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

Prevent entry to sewers and public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage. Clean up any spills as soon as possible, using an absorbent material to collect

it. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. For large spills, confine the spill in a dike and charge it with wet sand or earth for subsequent safe disposal. This material and its container must be disposed of in a

safe way, and as per local legislation.

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 : Handle empty containers with care because residual vapours are flammable.

Precautions for safe handling : No open flames. No smoking. Use only non-sparking tools. Hygiene measures : Wash hands, forearms and face thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed. Ground/bond

container and receiving equipment. Use explosion-proof Lighting equipment, ventilating

equipment

Storage conditions : Store refrigerated (-5°C to 5°C). Protect from light.

Incompatible materials : Heat sources.

#### 7.3. Specific end use(s)

No additional information available

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

#### 8.1. Control parameters

1,2,4-BENZENETRICARBOXYLIC ACID, 1,4-BIS(2-ETHYLHEXYL) ESTER (13C8, 99%) 100 UG/ML IN MTBE			
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	50.0000000 ppm Basis: USA. ACGIH Threshold Limit Values (TLV) Remarks: Upper Respiratory Tract irritation. Kidney damage. Confirmed animal carcinogen with unknown relevance to humans.	
USA OSHA	OSHA PEL (Ceiling) (mg/m³)	144 mg/m³ Basis: California permissible exposure limits for chemical contaminants. (Title 8, Article 107).	
USA OSHA	OSHA PEL (Ceiling) (ppm)	40 ppm Basis: California permissible exposure limits for chemical contaminants. (Title 8, Article 107).	
METHYL TERT-BUTYL ETHE	METHYL TERT-BUTYL ETHER UNLABELED (1634-04-4)		
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	50.00000000 ppm Basis: USA. ACGIH Threshold Limit Values (TLV) Remarks: Upper Respiratory Tract irritation. Kidney damage. Confirmed animal carcinogen with unknown relevance to humans.	
USA OSHA	OSHA PEL (Ceiling) (mg/m³)	144 mg/m³ Basis: California permissible exposure limits for chemical contaminants. (Title 8, Article 107).	
USA OSHA	OSHA PEL (Ceiling) (ppm)	40 ppm Basis: California permissible exposure limits for chemical contaminants. (Title 8. Article 107).	

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#### 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.

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.

Skin and body protection : Wear suitable protective clothing.

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. : 88.15 g/mol Molecular mass Colour : Colourless. Odour : No data available. Odour threshold : No data available No data available Relative evaporation rate (butylacetate=1) : No data available Melting point

Melting point : -108.6 °C (-163.5 °F)

Freezing point : No data available

Boiling point :  $55 - 56 \,^{\circ}\text{C} \, (131 - 133 \,^{\circ}\text{F}) - \text{lit.}$  Flash point :  $-33 \,^{\circ}\text{C} \, (-27.4 \,^{\circ}\text{F}) - \text{closed cup}$ 

 $\begin{array}{lll} \mbox{Auto-ignition temperature} & : & 374 \ ^{\circ}\mbox{C} \ (705.2 \ ^{\circ}\mbox{F}) \\ \mbox{Decomposition temperature} & : & \mbox{No data available} \end{array}$ 

Flammability (solid, gas) : Highly flammable liquid and vapour

Vapour pressure : 1018.7 hPa (764.1 mmHg) at 55°C (131°F), 279.2 hPa (209.4 mmHg) at 20 °C (68°F)

Relative vapour density at 20 °C : No data available Relative density : No data available

Density : 0.74 g/ml at 25 °C (77 °F)

Solubility : Water: 42 g/l at 20 °C (68 °F) - OECD Test Guideline 105

Log Pow : 1.06

Log Kow : No data available

Viscosity, kinematic : 0.464 mm<sup>2</sup>/s at 20 °C (68 °F) - 0.409 mm<sup>2</sup>/s at 40 °C (104 °F)

Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : 1.6 - 15.1 % (V)

#### 9.2. Other information

No additional information available

#### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Highly flammable liquid and vapour. May form flammable/explosive vapour-air mixture.

#### 10.2. Chemical stability

See storage and expiration date on CoA.

#### 10.3. Possibility of hazardous reactions

No additional information available

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#### 10.4. Conditions to avoid

Open flame. Direct sunlight.

#### 10.5. Incompatible materials

Oxidizing agent. Strong acids.

#### 10.6. Hazardous decomposition products

Carbon oxides (CO, CO2).

#### **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

1,2,4-BENZENETRICARBOXYLIC ACID, 1,4-BIS(2-ETHYLHEXYL) ESTER (13C8, 99%) 100 UG/ML IN MTBE	
LD50 oral rat	4000 mg/kg
LC50 inhalation rat (ppm)	23576 ppm/4h - 4 h

### 1,2,4-BENZENETRICARBOXYLIC ACID, 1,4-BIS(2-ETHYLHEXYL) ESTER (13C8, 99%) (63468-10-0 (Unlabeled))

ATE CLP (oral) 500.000 mg/kg bodyweight

METHYL TERT-BUTYL ETHER UNLABELED (1634-04-4)	
LD50 oral rat	4000 mg/kg
LC50 inhalation rat (ppm)	23576 ppm/4h

Skin corrosion/irritation : Skin - Rabbit Result: Skin irritation
Serious eye damage/irritation : Eyes - Rabbit Result: No eye irritation

Respiratory or skin sensitisation : Will not occur
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified

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. nausea, vomiting. Dizziness. central nervous system. Aspiration of this material may cause chemical pneumonia.

IARC group : 2

Symptoms/injuries after inhalation : May be harmful if inhaled. May cause respiratory irritation.

Symptoms/injuries after skin contact : Causes skin irritation.

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

Symptoms/injuries after ingestion : May be harmful if swallowed.

#### **SECTION 12: Ecological information**

#### 12.1. Toxicity

LC50 fish 2

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

1,2,4-BENZENETRICARBOXYLIC ACID, 1,4-BIS(2-ETHYLHEXYL) ESTER (13C8, 99%) 100 UG/ML IN MTBE	
LC50 fish 1	672 mg/l Pimephales promelas (fathead minnow) - 96 h
EC50 Daphnia 1	472 mg/l Daphnia magna (Water flea) - 48 h
EC50 other aquatic organisms 1	491 mg/l Pseudokirchneriella subcapitata (green algae) - 96 h
LC50 fish 2	> 1000 mg/l other fish - 96 h
METHYL TERT-BUTYL ETHER UNLABELED (1634-04-4)	
METHYL TERT-BUTYL ETHER UNLABELED (	1634-04-4)
METHYL TERT-BUTYL ETHER UNLABELED ( LC50 fish 1	1634-04-4) 672 mg/l Pimephales promelas (fathead minnow) - 96 h
<u>'</u>	,

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> 1000 mg/l other fish - 96 h

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#### 12.2. Persistence and degradability

1,2,4-BENZENETRICARBOXYLIC ACID, 1,4-BIS(2-ETHYLHEXYL) ESTER (13C8, 99%) 100 UG/ML IN MTBEBiodegradation0 % - Not readily biodegradable. (OECD Test Guideline 301D)	
Persistence and degradability	Not readily biodegradable. (OECD 301D method).
Biodegradation	0 %

#### Bioaccumulative potential

1,2,4-BENZENETRICARBOXYLIC ACID, 1,4-BIS(2-ETHYLHEXYL) ESTER (13C8, 99%) 100 UG/ML IN MTBE	
Log Pow	1.06

METHYL TERT-BUTYL ETHER UNLABELED (	1634-04-4)
Log Pow	1.06

#### 12.4. Mobility in soil

No additional information available

#### Results of PBT and vPvB assessment

No additional information available

#### 12.6 Other adverse effects

No additional information available

#### **SECTION 13: Disposal considerations**

#### 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.

Additional information : Handle empty containers with care because residual vapours are flammable.

Ecology - waste materials : Dispose of as unused product.

#### **SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

**UN** number 14.1.

UN-No.(DOT) : 2398 DOT NA no. UN2398

#### **UN** proper shipping name

Proper Shipping Name (DOT) : Methyl tert-butyl ether

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

DOT Special Provisions (49 CFR 172.102) : 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.

T7 - 4 178.274(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

filling

DOT Packaging Exceptions (49 CFR 173.xxx) : 150 : 202 DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) : 242

### **Additional information**

Emergency Response Guide (ERG) Number

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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 2398

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

#### Transport by sea

DOT Vessel Stowage Location : E - 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, but is prohibited from carriage on passenger vessels in which the limiting number of passengers is exceeded.

MFAG-No : 127

#### 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

#### 14.4. Environmental hazards

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

1,2,4-BENZENETRICARBOXYLIC ACID, 1,4-BIS(2-ETHYLHEXYL) ESTER (13C8, 99%) 100 UG/ML IN MTBE	
Subject to reporting requirements of United States SARA Section 313	
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 Immediate (acute) health hazard Delayed (chronic) health hazard

1,2,4-BENZENETRICARBOXYLIC ACID, 1,4-BIS(2-ETHYLHEXYL) ESTER (13C8, 99%) (63468-10-0 (Unlabeled))  Listed on the United States TSCA (Toxic Substances Control Act) inventory  SARA Section 302 Threshold Planning Quantity (TPQ)  Not subject to reporing requirements of the United States SARA Section 302.		
		nces Control Act) inventory
		Not subject to reporing requirements of the United States SARA Section 302.
	SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
	SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313

#### METHYL TERT-BUTYL ETHER UNLABELED (1634-04-4)

Subject to reporting requirements of United States SARA Section 313

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METHYL TERT-BUTYL ETHER UNLABELED (1634-04-4)	
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 Immediate (acute) health hazard Delayed (chronic) health hazard

#### 15.2. International regulations

#### CANADA

#### 1,2,4-BENZENETRICARBOXYLIC ACID, 1,4-BIS(2-ETHYLHEXYL) ESTER (13C8, 99%) 100 UG/ML IN MTBE

Listed on the Canadian DSL (Domestic Substances List)

#### 1,2,4-BENZENETRICARBOXYLIC ACID, 1,4-BIS(2-ETHYLHEXYL) ESTER (13C8, 99%) (63468-10-0 (Unlabeled))

Listed on the Canadian DSL (Domestic Substances List)

#### **METHYL TERT-BUTYL ETHER UNLABELED (1634-04-4)**

Listed on the Canadian DSL (Domestic Substances List)

#### 15.2.1. National regulations

#### **METHYL TERT-BUTYL ETHER UNLABELED (1634-04-4)**

#### 15.3. US State regulations

1,2,4-BENZENETRICARBOXYLIC ACID, 1,4-BIS(2-ETHYLHEXYL) ESTER (13C8, 99%) 100 UG/ML IN MTBE()	
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 New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) List

1,2,4-BENZENETRICARBOXYLIC ACID, 1,4-BIS(2-ETHYLHEXYL) ESTER (13C8, 99%) (63468-10-0 (Unlabeled))						
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level		
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)		
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -			
		Female	Male			
No	No	No	No			

METHYL TERT-BUTYL ETHER UNLABELED (1634-04-4)						
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			

### $\textbf{1,2,4-BENZENETRICARBOXYLIC\ ACID,\ 1,4-BIS(2-ETHYLHEXYL)\ ESTER\ (13C8,\ 99\%)\ (63468-10-0\ (Unlabeled))}$

#### State or local regulations

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

#### **METHYL TERT-BUTYL ETHER UNLABELED (1634-04-4)**

#### 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

#### **SECTION 16: Other information**

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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

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:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4		
Flam. Liq. 2	Flammable liquids, Category 2		
Skin Irrit. 2	Skin corrosion/irritation, Category 2		
H225	Highly flammable liquid and vapour		
H302	Harmful if swallowed		
H315	Causes skin irritation		
R11	Highly flammable		
R22	Harmful if swallowed		
R38	Irritating to skin		
F	Highly flammable		
Xi	Irritant		
Xn	Harmful		

NFPA health hazard : 2 - Materials that, under emergency conditions, can cause

temporary incapacitation or residual injury.

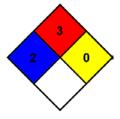
NFPA fire hazard : 3 - Liquids and solids (including finely divided suspended

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.



#### **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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