



1,2,4-BENZENETRICARBOXYLIC ACID, 1,4-BIS(2-ETHYL HEXYL) ESTER (UNLABELED) 100 UG/ML IN MTBE

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: 07/07/2017

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:

Version: 1.0

ULM-10316-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-ETHYL HEXYL) ESTER (UNLABELED) 100 UG/ML IN MTBE
Product code : ULM-10316-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
cilsales@isotope.com 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+; R12
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

Eyes, Kidney, Liver, Heart, Central nervous system. Highly flammable liquid and vapor. Causes skin irritation.

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2.2. Label elements

Labeling 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 vapor
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 both hands 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

GHS-US labeling

Hazard pictograms (GHS-US) :



GHS02

GHS07

Signal word (GHS-US) :

: Danger

Hazard statements (GHS-US) :

: H225 - Highly flammable liquid and vapor
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, lighting, ventilating equipment
P242 - Use only non-sparking tools
P243 - Take precautionary measures against static discharge
P264 - Wash Both hands 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 Hazard pictograms (CLP) on this label)
P332+P313 - If skin irritation occurs: Get medical advice/attention
P362 - Take off contaminated clothing and wash it before reuse
P370+P378 - In case of fire: Use Alcohol resistant foam, Carbon dioxide, Dry chemical, Water spray to extinguish
P403+P235 - Store in a well-ventilated place. Keep cool
P501 - Dispose of contents/container to Comply with applicable regulations

2.3. Other hazards

No additional information available

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Directive 67/548/EEC
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-ETHYL HEXYL) ESTER (UNLABELED) 100 UG/ML IN MTBE

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Name	Product identifier	%	Classification according to Directive 67/548/EEC
1,2,4-BENZENETRICARBOXYLIC ACID, 1,4-BIS(2-ETHYLHEXYL) ESTER (UNLABELED)	(CAS No) 63468-10-0	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 (UNLABELED)	(CAS No) 63468-10-0	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-ETHYLHEXYL) ESTER (UNLABELED)	(CAS No) 63468-10-0	0.013	Acute Tox. 4 (Oral), H302

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	: If you feel unwell, seek medical advice (show the label where possible). Evacuate danger area.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. When symptoms occur: go into open air and ventilate suspected area. If not breathing, give artificial respiration. Get medical advice/attention.
First-aid measures after skin contact	: Wash with plenty of soap and water. Get immediate medical advice/attention. 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.
First-aid measures after ingestion	: Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get medical advice/attention. Call a poison center/doctor/physician if you feel unwell.

4.2. 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.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

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

5.2. Special hazards arising from the substance or mixture

Reactivity : Highly flammable liquid and vapor.

5.3. 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. 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.

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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. Avoid breathing vapors, mist, gas. Provide adequate ventilation to minimize dust and/or vapor concentrations. Avoid dust formation. Evacuate area. Remove all sources of ignition. Special attention should be given to low areas/pits where flammable vapors can accumulate. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes.

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

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

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage. This material and its container must be disposed of in a safe way, and as per local legislation.

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

Precautions for safe handling : Ensure good ventilation of the work station. Avoid breathing dust, fume, gas, mist, spray, vapors. Use explosion-proof equipment. Keep away from sources of ignition - No smoking. Prevent the build-up of electrostatic charge. Provide adequate ventilation to minimize dust and/or vapor concentrations. 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 vapors may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Avoid contact with skin and eyes.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Store in a well-ventilated place. Keep container tightly closed. Ground/bond container and receiving equipment.

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

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-ETHYL HEXYL) ESTER (UNLABELED) 100 UG/ML IN MTBE		
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/m ³)	144 mg/m ³ 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 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.

1,2,4-BENZENETRICARBOXYLIC ACID, 1,4-BIS(2-ETHYL HEXYL) ESTER (UNLABELED) 100 UG/ML IN MTBE

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METHYL TERT-BUTYL ETHER UNLABELED (1634-04-4)		
USA OSHA	OSHA PEL (Ceiling) (mg/m ³)	144 mg/m ³ 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).

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 : 88.15 g/mol

Color : Colorless.

Odor : No data available.

Odor threshold : No data available

pH : No data available

Relative evaporation rate (butyl acetate=1) : No data available

Melting point : -108.6 °C (-163.5 °F)

Freezing point : No data available

Boiling point : 55 - 56 °C (131 - 133 °F) - lit.

Flash point : -33 °C (- 27.4 °F) - closed cup

Auto-ignition temperature : 374 °C (705.2 °F)

Decomposition temperature : No data available

Flammability (solid, gas) : No data available

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

Relative vapor density at 20 °C : No data available

Relative density : No data available

Specific gravity / 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 mm²/s at 20 °C (68 °F) - 0.409 mm²/s at 40 °C (104 °F)

Viscosity, dynamic : No data available

Explosive properties : No data available

Oxidizing properties : No data available

Explosion limits : 1.6 - 15.1 % (V)

9.2. Other information

No additional information available

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SECTION 10: Stability and reactivity

10.1. Reactivity

Highly flammable liquid and vapor.

10.2. Chemical stability

See storage and expiration date on CoA.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

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

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-ETHYL HEXYL) ESTER (UNLABELED) 100 UG/ML IN MTBE

LD50 oral rat	4000 mg/kg
LC50 inhalation rat (ppm)	23576 ppm/4h - 4 h
ATE CLP (oral)	4000.000 mg/kg body weight
ATE CLP (gases)	23576.000 ppmV/4h

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

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 (UNLABELED) (63468-10-0)

ATE CLP (oral)	500.000 mg/kg body weight
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Skin corrosion/irritation	: Skin - Rabbit	Result: Skin irritation
Serious eye damage/irritation	: Eyes - Rabbit	Result: No eye irritation
Respiratory or skin sensitization	: Will not occur	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Reproductive toxicity	: Not classified	
Specific target organ toxicity – single exposure	: Not classified	
Specific target organ toxicity – 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	: 2B	
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

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

1,2,4-BENZENETRICARBOXYLIC ACID, 1,4-BIS(2-ETHYL HEXYL) ESTER (UNLABELED) 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

1,2,4-BENZENETRICARBOXYLIC ACID, 1,4-BIS(2-ETHYL HEXYL) ESTER (UNLABELED) 100 UG/ML IN MTBE

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1,2,4-BENZENETRICARBOXYLIC ACID, 1,4-BIS(2-ETHYL HEXYL) ESTER (UNLABELED) 100 UG/ML IN MTBE	
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)	
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

12.2. Persistence and degradability

1,2,4-BENZENETRICARBOXYLIC ACID, 1,4-BIS(2-ETHYL HEXYL) ESTER (UNLABELED) 100 UG/ML IN MTBE	
Biodegradation	0 % - Not readily biodegradable. (OECD Test Guideline 301D)

METHYL TERT-BUTYL ETHER UNLABELED (1634-04-4)	
Biodegradation	0 % - Not readily biodegradable. (OECD Test Guideline 301D)

12.3. Bioaccumulative potential

1,2,4-BENZENETRICARBOXYLIC ACID, 1,4-BIS(2-ETHYL HEXYL) ESTER (UNLABELED) 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

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.
- 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) : 2398
- DOT NA no. UN2398

14.2. 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

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DOT Packaging Non Bulk (49 CFR 173.xxx) : 202
DOT Packaging Bulk (49 CFR 173.xxx) : 242
Marine pollutant : No

14.3. Additional information

Emergency Response Guide (ERG) Number : 127
Other information : No supplementary information available.
Special transport precautions : Not classified as dangerous in the meaning of transport regulations.

Overland transport

Packing group (ADR) : II
Class (ADR) : 3 - Flammable liquid
Hazard identification number (Kemler No.) : 33
Classification code (ADR) : F1
Hazard labels (ADR) : 3 - Flammable liquids



Orange plates :

Tunnel restriction code (ADR) : D/E
Limited quantities (ADR) : 11
EAC : •3YE
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 (49 CFR 173.27) : 5 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 60 L
Civil Aeronautics Law : Flammable liquids

14.4. Environmental hazards

Other information : No supplementary information available.

14.5. Special precautions for user

Special transport precautions : Not classified as dangerous in the meaning of transport regulations.

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-ETHYL HEXYL) ESTER (UNLABELED) 100 UG/ML IN MTBE

Subject to reporting requirements of United States SARA Section 313

1,2,4-BENZENETRICARBOXYLIC ACID, 1,4-BIS(2-ETHYL HEXYL) ESTER (UNLABELED) 100 UG/ML IN MTBE

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1,2,4-BENZENETRICARBOXYLIC ACID, 1,4-BIS(2-ETHYL HEXYL) ESTER (UNLABELED) 100 UG/ML IN MTBE	
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 Delayed (chronic) health hazard
METHYL TERT-BUTYL ETHER UNLABELED (1634-04-4)	
Subject to reporting requirements of United States SARA Section 313	
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 Delayed (chronic) health hazard
1,2,4-BENZENETRICARBOXYLIC ACID, 1,4-BIS(2-ETHYLHEXYL) ESTER (UNLABELED) (63468-10-0)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
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
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.

15.2. International regulations

CANADA

1,2,4-BENZENETRICARBOXYLIC ACID, 1,4-BIS(2-ETHYL HEXYL) ESTER (UNLABELED) 100 UG/ML IN MTBE	
Listed on the Canadian DSL (Domestic Substances List)	
METHYL TERT-BUTYL ETHER UNLABELED (1634-04-4)	
Listed on the Canadian DSL (Domestic Substances List)	
1,2,4-BENZENETRICARBOXYLIC ACID, 1,4-BIS(2-ETHYLHEXYL) ESTER (UNLABELED) (63468-10-0)	
Listed on the Canadian DSL (Domestic Substances List)	

15.2.1. National regulations

1,2,4-BENZENETRICARBOXYLIC ACID, 1,4-BIS(2-ETHYLHEXYL) ESTER (UNLABELED) (63468-10-0)

15.3. US State regulations

1,2,4-BENZENETRICARBOXYLIC ACID, 1,4-BIS(2-ETHYL HEXYL) ESTER (UNLABELED) 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			
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	
1,2,4-BENZENETRICARBOXYLIC ACID, 1,4-BIS(2-ETHYLHEXYL) ESTER (UNLABELED) (63468-10-0)				
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	

1,2,4-BENZENETRICARBOXYLIC ACID, 1,4-BIS(2-ETHYL HEXYL) ESTER (UNLABELED) 100 UG/ML IN MTBE

ULM-10316-S

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

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

1,2,4-BENZENETRICARBOXYLIC ACID, 1,4-BIS(2-ETHYLHEXYL) ESTER (UNLABELED) (63468-10-0)

State or local regulations

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.

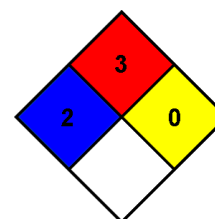
Full text of R-, H- and EUH-phrases:

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 vapor
H302	Harmful if swallowed
H315	Causes skin irritation
R11	Highly flammable
R12	Extremely flammable
R22	Harmful if swallowed
R38	Irritating to skin
F	Highly flammable
F+	Extremely 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