

#### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 1/16/2015 Revision date: 8/18/2023 Supersedes: 1/16/2015 Version: 2.0

#### **SECTION 1: Identification**

#### 1.1. Identification

Product form : Mixture

Product name : MONO-(2-ETHYL-5-HYDROXYHEXYL)PHTHALATE (13C4,99%) (DEHP METABOLITE IX) 100

UG/ML IN MTBE

Product code : CLM-6641-MT-S

#### 1.2. Recommended use and restrictions on use

No additional information available

#### 1.3. Supplier

Cambridge Isotope Laboratories, Inc.

50 Frontage Rd

01810

ANDOVER, MA, 01810

USA

T 1-800-322-1174

cilsales@isotope.com - www.isotope.com

#### 1.4. Emergency telephone number

Emergency number : 1-703-741-5970

Chemtrec 1-800-424-9300 24 hours

#### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

#### **GHS US classification**

Flammable liquids Category 2 H225 Highly flammable liquid and vapor

Skin corrosion/irritation Category 2 H315 Causes skin irritation

Full text of H statements : see section 16

#### 2.2. GHS Label elements, including precautionary statements

#### **GHS US labeling**

Hazard pictograms (GHS US)





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, sparks, open flames and other ignition sources. No

smoking. heat, hot surfaces, open flames, sparks

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.

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P243 - Take precautionary measures against static discharge.

P264 - Wash Both hands 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.

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 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 which do not result in classification

No additional information available

#### 2.4. Unknown acute toxicity (GHS US)

Not applicable

#### **SECTION 3: Composition/Information on ingredients**

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	GHS US classification
METHYL TERT-BUTYL ETHER UNLABELED	CAS-No.: 1634-04-4	99.9865	Flam. Liq. 2, H225 Skin Irrit. 2, H315
MONO-(2-ETHYL-5-HYDROXYHEXYL)PHTHALATE (13C4, 99%) (DEHP METABOLITE IX)	CAS-No.: 40321-98-0 (Unlabeled)		Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335

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

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

#### 4.1. Description of first aid measures

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 : Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

: If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a physician.

Wash off with soap and plenty of water. Consult a physician.

: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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#### 4.2. Most important symptoms and effects (acute and delayed)

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. central nervous system.

Dizziness. Nausea. Vomiting. IF INHALED: Risk of pneumonia.

: May be harmful if inhaled. May cause respiratory tract irritation.

: May be harmful if absorbed through skin. Causes skin irritation.

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

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

#### 4.3. Immediate medical attention and special treatment, if necessary

No additional information available

Symptoms/effects after inhalation

Symptoms/effects after skin contact

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

#### 5.1. Suitable (and unsuitable) extinguishing media

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

#### 5.2. Specific hazards arising from the chemical

Fire hazard : Highly flammable liquid and vapor.

Hazardous decomposition products in case of fire : Carbon oxides (CO, CO2).

#### 5.3. Special protective equipment and precautions for fire-fighters

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.

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

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

#### 6.1.1. For non-emergency personnel

Emergency procedures

 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.

#### 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.

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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 : Avoid contact with skin and eyes. 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.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work.

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

Technical measures : Store in a well-ventilated place. Keep container tightly closed.

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

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

#### 8.1. Control parameters

MONO-(2-ETHYL-5-HYDROXYHEXYL)PHTHAL	ATE (13C4,99%) (DEHP METABOLITE IX) 100 UG/ML IN MTBE	
USA - ACGIH - Occupational Exposure Limits		
ACGIH OEL TWA [ppm]	50 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 - Occupational Exposure Limits		
OSHA PEL C	144 mg/m³ Basis: California permissible exposure limits for chemical contaminants. (Title 8, Article 107).	
OSHA PEL C [ppm]	40 ppm Basis: California permissible exposure limits for chemical contaminants. (Title 8, Article 107).	
METHYL TERT-BUTYL ETHER UNLABELED (	1634-04-4)	
USA - ACGIH - Occupational Exposure Limits		
ACGIH OEL TWA [ppm]	50 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 - Occupational Exposure Limits		
OSHA PEL C	144 mg/m³ Basis: California permissible exposure limits for chemical contaminants. (Title 8, Article 107).	
OSHA PEL C [ppm]	40 ppm Basis: California permissible exposure limits for chemical contaminants. (Title 8, Article 107).	
MONO-(2-ETHYL-5-HYDROXYHEXYL)PHTHALATE (13C4, 99%) (DEHP METABOLITE IX) (40321-98-0 (Unlabeled))		
USA - ACGIH - Occupational Exposure Limits		
ACGIH chemical category	No component of this product present at levels greater than or equal to 0.1% is identifiable as a carcinogen or potential carcinogen by ACGIH.	

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#### 8.2. Appropriate engineering controls

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

smoking and when leaving work.

Environmental exposure controls : Avoid release to the environment.

#### 8.3. Individual protection measures/Personal protective equipment

#### 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, gloves and eye/face protection

#### Respiratory protection:

In case of inadequate ventilation wear respiratory protection. Approved supplied air respirator

#### Personal protective equipment symbol(s):









#### **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Liquid.
Color : Colorless

Odor : No data available
Odor threshold : No data available
pH : 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

Relative evaporation rate (butyl acetate=1) : 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

Density : 0.74 g/ml at 25 °C (77 °F)

Molecular mass : 88.15 g/mol Solubility : Water: 42 g/l

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Partition coefficient n-octanol/water (Log Pow) : 1.06

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

Decomposition temperature : 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 Explosion limits : 1.6 – 15.1 % (V) Explosive properties : No data available Oxidizing properties : No data available

#### 9.2. Other information

No additional information available

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

#### 10.1. Reactivity

No additional information available

#### 10.2. Chemical stability

See storage and expiration date on CoA.

#### 10.3. Possibility of hazardous reactions

No additional information available

#### 10.4. Conditions to avoid

Heat. Open flame. Sparks.

#### 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 (oral) : Not classified Acute toxicity (dermal) : Not classified Acute toxicity (inhalation) : Not classified

# MONO-(2-ETHYL-5-HYDROXYHEXYL)PHTHALATE (13C4,99%) (DEHP METABOLITE IX) 100 UG/ML IN MTBE LD50 oral rat 4000 mg/kg LC50 Inhalation - Rat [ppm] 23576 ppm/4h METHYL TERT-BUTYL ETHER UNLABELED (1634-04-4) LD50 oral rat 4000 mg/kg LC50 Inhalation - Rat [ppm] 23576 ppm/4h ATE US (oral) 4000 mg/kg body weight ATE US (gases) 23576 ppmV/4h

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Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Not classified
Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified

#### MONO-(2-ETHYL-5-HYDROXYHEXYL)PHTHALATE (13C4,99%) (DEHP METABOLITE IX) 100 UG/ML IN MTBE

IARC group 3 - Not classifiable

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

IARC group 3 - Not classifiable

Reproductive toxicity : Not classified STOT-single exposure : Not classified

#### MONO-(2-ETHYL-5-HYDROXYHEXYL)PHTHALATE (13C4, 99%) (DEHP METABOLITE IX) (40321-98-0 (Unlabeled))

STOT-single exposure May cause respiratory irritation.

STOT-repeated exposure : Not classified
Aspiration hazard : Not classified

Viscosity, kinematic : 0.464 mm²/s at 20 °C (68 °F) - 0.409 mm²/s at 40 °C (104 °F)

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

Viscosity, kinematic 0.464 mm²/s at 20 °C (68 °F) - 0.409 mm2/s at 40 °C (104 °F)

Potential Adverse human health effects and

Symptoms/effects after inhalation

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, central nervous system.

Dizziness. Nausea. Vomiting. IF INHALED: Risk of pneumonia.

: May be harmful if inhaled. May cause respiratory tract irritation.

Symptoms/effects after skin contact : May be harmful if absorbed through skin. Causes skin irritation. Symptoms/effects after eye contact : May cause eye irritation.

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

Symptoms/effects 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.

MONO-(2-ETHYL-5-HYDROXYHEXYL)PHTHALATE (13C4,99%) (DEHP METABOLITE IX) 100 UG/ML IN MTBE		
LC50 - Fish [1]	672 mg/l Pimephales promelas (fathead minnow) - 96 h	
EC50 - Crustacea [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)		
METITE TERT BOTTE ETHER ONE/BELLED (	1034-04-4)	
LC50 - Fish [1]	672 mg/l Pimephales promelas (fathead minnow) - 96 h	
	·	
LC50 - Fish [1]	672 mg/l Pimephales promelas (fathead minnow) - 96 h	

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#### 12.2. Persistence and degradability

MONO-(2-ETHYL-5-HYDROXYHEXYL)PHTHALATE (13C4,99%) (DEHP METABOLITE IX) 100 UG/ML IN MTBE		
Persistence and degradability Not readily biodegradable. (OECD 301D method).		
Biodegradation 0 %		
METHYL TERT-BUTYL ETHER UNLABELED (1634-04-4)		
Persistence and degradability  Not readily biodegradable. (OECD 301D method).		
Biodegradation	0 %	

#### 12.3. Bioaccumulative potential

MONO-(2-ETHYL-5-HYDROXYHEXYL)PHTHALATE (13C4,99%) (DEHP METABOLITE IX) 100 UG/ML IN MTBE		
Partition coefficient n-octanol/water (Log Pow) 1.06		
METHYL TERT-BUTYL ETHER UNLABELED (1634-04-4)		
Partition coefficient n-octanol/water (Log Pow) 1.06		

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

Other adverse effects : Avoid release to the environment. Disposal must be done according to official regulations.

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

#### 13.1. Disposal 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 DOT / TDG / IMDG / IATA

#### 14.1. UN number

DOT NA No : UN2398 UN-No. (TDG) : UN2398 UN-No. (IMDG) : 2398 UN-No. (IATA) : 2398

#### 14.2. UN proper shipping name

Proper Shipping Name (DOT) : Methyl tert-butyl ether
Proper Shipping Name (TDG) : METHYL tert-BUTYL ETHER
Proper Shipping Name (IMDG) : METHYL tert-BUTYL ETHER
Proper Shipping Name (IATA) : Methyl tert-butyl ether

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#### 14.3. Transport hazard class(es)

#### DOT

Transport hazard class(es) (DOT) : 3
Hazard labels (DOT) : 3



#### **TDG**

Transport hazard class(es) (TDG) : 3
Hazard labels (TDG) : 3



#### **IMDG**

Transport hazard class(es) (IMDG) : 3 Hazard labels (IMDG) : 3



#### IATA

Transport hazard class(es) (IATA) : 3
Hazard labels (IATA) : 3



#### 14.4. Packing group

Packing group (DOT) : II
Packing group (TDG) : II
Packing group (IMDG) : II
Packing group (IATA) : II

#### 14.5. Environmental hazards

Other information : No supplementary information available.

#### 14.6. Special precautions for user

#### DOT

UN-No.(DOT) : UN2398

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: IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite DOT Special Provisions (49 CFR 172.102)

(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 DOT Packaging Non Bulk (49 CFR 173.xxx) 202 DOT Packaging Bulk (49 CFR 173.xxx) 242 DOT Quantity Limitations Passenger aircraft/rail (49 : 5 L

CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 60 L

CFR 175.75)

**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.

**TDG** 

UN-No. (TDG) : UN2398 **Explosive Limit and Limited Quantity Index** : 1L Excepted quantities (TDG) : F2 Passenger Carrying Ship Index : Forbidden : 5 L

Passenger Carrying Road Vehicle or Passenger

Carrying Railway Vehicle Index

Emergency Response Guide (ERG) Number : 127

Limited quantities (IMDG) : 1L : E2 Excepted quantities (IMDG) P001 Packing instructions (IMDG) IBC packing instructions (IMDG) IBC02 Tank instructions (IMDG) T7 Tank special provisions (IMDG) TP1

: F-E - FIRE SCHEDULE Echo - NON-WATER-REACTIVE FLAMMABLE LIQUIDS EmS-No. (Fire)

: S-D - SPILLAGE SCHEDULE Delta - FLAMMABLE LIQUIDS EmS-No. (Spillage)

Stowage category (IMDG)

Flash point (IMDG) : below -18°C c.c.

Colourless liquid. Flashpoint: below -18°C c.c. Explosive limits: 1.7% to 8.4% Boiling point: Properties and observations (IMDG)

55°C. Immiscible with water.

MFAG-No : 127

PCA Excepted quantities (IATA) : E2 : Y341 PCA Limited quantities (IATA) PCA limited quantity max net quantity (IATA) 1L PCA packing instructions (IATA) 353 5L PCA max net quantity (IATA) CAO packing instructions (IATA) 364 : 60L CAO max net quantity (IATA) : 3L ERG code (IATA)

#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

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#### **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

MONO-(2-ETHYL-5-HYDROXYHEXYL)PHTHALATE (13C4,99%) (DEHP METABOLITE IX) 100 UG/ML IN MTBE		
SARA Section 311/312 Hazard Classes	Fire hazard	
	Immediate (acute) health hazard	
	Delayed (chronic) health hazard	

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

Name	CAS-No.	Listing	Commercial status	Flags
METHYL TERT-BUTYL ETHER UNLABELED	1634-04-4	Present	Active	
MONO-(2-ETHYL-5-HYDROXYHEXYL)PHTHALATE (13C4, 99%) (DEHP METABOLITE IX)	40321-98-0 (Unlabeled)	Not present	-	

METHYL TERT-BUTYL ETHER UNLABELED (1634-04-4)	
Subject to reporting requirements of United States SARA Section 313 Listed on EPA Hazardous Air Pollutant (HAPS)	
CERCLA RQ	1000 lb
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard

MONO-(2-ETHYL-5-HYDROXYHEXYL)PHTHALATE (13C4, 99%) (DEHP METABOLITE IX) (40321-98-0 (Unlabeled))		
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	

#### 15.2. International regulations

#### **CANADA**

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

Listed on the Canadian DSL (Domestic Substances List)

#### **EU-Regulations**

No additional information available

#### **National regulations**

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

Listed on INSQ (Mexican National Inventory of Chemical Substances)

#### 15.3. US State regulations

Component	State or local regulations
METHYL TERT-BUTYL ETHER UNLABELED(1634-04-4)	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

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

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Revision date : 08/18/2023

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 H-phrases	
H225	Highly flammable liquid and vapor
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation

Safety Data Sheet (SDS), USA

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