

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: 03/04/2017 Revision date: 05/06/2018 Supersedes: 03/04/2017 Version: 1.1

ULM-10189-S

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

1.1. Product identifier

Product form : Mixtures

Product name : MONO-(4-METHYL-7-HYDROXYLOCTYL) PHTHALATE UNLABELED 100 UG/ML IN MTBE

Product code : ULM-10189-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 <u>cilsales@isotope.com</u> 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

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP)



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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 equipment

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 soap and 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)





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 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 face protection, face shield, protective clothing, protective gloves

P302+P352 - If on skin: Wash with plenty of Water spray

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+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

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

3.2. Mixtures

o.z. 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
MONO-(4-METHYL-7-HYDROXYLOCTYL) PHTHALATE UNLABELED		0.013	Xi; R36/37/38 Xn; R22

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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
MONO-(4-METHYL-7-HYDROXYLOCTYL) PHTHALATE UNLABELED		0.013	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335

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
MONO-(4-METHYL-7-HYDROXYLOCTYL) PHTHALATE UNLABELED		0.013	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335

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.

First-aid measures after inhalation : If not breathing, give artificial respiration. Move the affected person away from the

contaminated area and into the fresh air.

First-aid measures after skin contact : After contact with skin, take off immediately all contaminated clothing, and wash immediately

with plenty of water.

First-aid measures after eye contact : Rinse eyes with water as a precaution.

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

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

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

5.2. Special hazards arising from the substance or mixture

Fire hazard : Highly flammable liquid and vapor.

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

5.3. Advice for firefighters

Firefighting instructions : Do not enter fire area without proper protective equipment, including respiratory protection.

Protection during firefighting : Wear self-contained breathing apparatus, rubber boots and thick rubber gloves.

SECTION 6: Accidental release measures

For non-emergency personnel

6.1. Personal precautions, protective equipment and emergency procedures

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

smol

Emergency procedures : Avoid contact with skin and eyes. Avoid dust formation. Evacuate unnecessary personnel.

6.1.2. For emergency responders

No additional information available

6.1.1.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Do not allow product to spread into the environment.

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6.3. Methods and material for containment and cleaning up

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or

streams. This material and its container must be disposed of in a safe way, and as per local

legislation

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapors are flammable.

Precautions for safe handling : No open flames. No smoking.

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 : Keep container tightly closed in a cool, dry and well-ventilated place.

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

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).

8.2. Exposure controls

Skin and body protection : Wear suitable protective clothing.

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) : Highly flammable liquid and vapor

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)

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

Log Pow : 1.06

Log Kow : No data available

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

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

Other information

No additional information available

SECTION 10: Stability and reactivity

Reactivity

No additional information available

Chemical stability

See storage and expiration date on CoA.

Possibility of hazardous reactions

No additional information available

Conditions to avoid

Open flame. Direct sunlight.

Incompatible materials

Oxidizing agent. Strong acids.

Hazardous decomposition products

May release flammable gases.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity : Not classified

MONO-(4-METHYL-7-HYDROXYLOCTYL) PHTHALATE UNLABELED 100 UG/ML IN MTBE	
LD50, oral, rat	mg/kg
LC50, Inhalation, rat	ppm/4h
METHYL TERT-BUTYL ETHER UNLABELED (1634-04-4)	
LD50 oral rat	4000 mg/kg
LC50 inhalation rat (ppm)	23576 ppm/4h

MONO-(4-METHYL-7-HYDROXYLOCTYL) PHTHALATE UNLABELED

ATE CLP (oral) 500.000 mg/kg body weight

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Not classified No eye irritation

Will not occur

Respiratory or skin sensitization Germ cell mutagenicity Not classified

Carcinogenicity : Not classifiable as a human carcinogen

Reproductive toxicity : Not classified : Not classified Specific target organ toxicity - single exposure Specific target organ toxicity - repeated : Not classified exposure

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. Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis.

CNS depression.

IARC group

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

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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

Toxicity

EC50 Daphnia 1

MONO-(4-METHYL-7-HYDROXYLOCTYL) PHTHALATE 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
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

472 mg/l Daphnia magna (Water flea) - 48 h

> 1000 mg/l other fish - 96 h

0 %

491 mg/l Pseudokirchneriella subcapitata (green algae) - 96 h

LOSO HSH Z		

EC50 other aquatic organisms 1

Persistence and degradability 12.2.

MONO-(4-METHYL-7-HYDROXYLOCTYL) PHTHALATE UNLABELED 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	

12.3.	3. Bioaccumulative potential		
MON	MONO-(4-METHYL-7-HYDROXYLOCTYL) PHTHALATE UNLABELED 100 UG/ML IN MTBE		
Log P	OW	1.06	

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

Mobility in soil

No additional information available

Results of PBT and vPvB assessment

No additional information available

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 vapors are flammable.

Ecology - waste materials : Hazardous waste due to toxicity.

SECTION 14: Transport information

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

14.1. **UN** number

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

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

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

14.3. Additional information

Emergency Response Guide (ERG) Number : 127

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

Hazard labels (ADR) : 3 - Flammable liquids



Orange plates

33 2398

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 : 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.

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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

MONO-(4-METHYL-7-HYDROXYLOCTYL) PHTHALATE UNLABELED 100 UG/ML IN MTBE		
Subject to reporting requirements of United States SARA Section 313		
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	Subject to reporting requirements of United States SARA Section 313	
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 reporing requirements of the United States SARA Section 302.	
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard	

MONO-(4-METHYL-7-HYDROXYLOCTYL) PHTHALATE UNLABELED

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	Subject to reporting requirements of United States SARA Section 313	

Delayed (chronic) health hazard

15.2. International regulations

CANADA

MONO-(4-METHYL-7-HYDROXYLOCTYL) PHTHALATE 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)

15.2.1. National regulations

No additional information available

15.3. US State regulations

MONO-(4-METHYL-7-HYDROXYLOCTYL) PHTHALATE 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			
MONO-(4-METHYL-7-HYDROXYLOCTYL) PHTHALATE UNLABELED						
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)		

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MONO-(4-METHYL-7-HYDROXYLOCTYL) PHTHALATE UNLABELED					
No	No	No	No		

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

MONO-(4-METHYL-7-HYDROXYLOCTYL) PHTHALATE UNLABELED

State or local regulations

- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) 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
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
H225	Highly flammable liquid and vapor
H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
R11	Highly flammable
R22	Harmful if swallowed
R36/37/38	Irritating to eyes, respiratory system and skin
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.

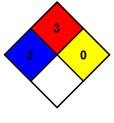
NFPA fire hazard

: 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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