

### 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: 28/05/2014 ULM-7393-MT-S

Revision date: 14/05/2020

Supersedes: 29/05/2014

Version: 3.0

SECTION 1: Identification of the si 1.1. Product identifier	ubstance/mixture and of the company/undertaking
Product form	: Mixtures
Product name	: MONO-N-PENTYL PHTHALATE UNLABELED 100 UG/ ML IN MTBE
Product code	: ULM-7393-MT-S
1.2. Relevant identified uses of the su	ubstance 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 safe	ty 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 o	r mixture
Classification according to Regulation (EC	i) 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 67/54	8/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 a	and environmental effects

central nervous system. kidneys.

### 2.2. Label elements

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





: Danger

18/05/2020

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Hazard statements (CLP)		<ul> <li>Highly flammable liquid and vapor</li> <li>Causes skin irritation</li> </ul>		
Precautionary statements (CLP)	: P210 smok P233 P240 P241 P264 P280 P302 P303	- Keep away from heat, hot surfaces, sp	equipment. , ventilating equi ughly after hand oves. of water.	ipment ling.
GHS-US labeling				
Hazard pictograms (GHS-US)	· <			
Signal word (GHS-US)	: Dang	GHS02 GHS07		
Hazard statements (GHS-US)	: H225	<ul> <li>Highly flammable liquid and vapor</li> <li>Causes skin irritation</li> </ul>		
Precautionary statements (GHS-US)	P233 P240 P241 P242 P243 P264 P280 P302 P303 skin v P302 P303 P302 P302 P302 P302 P302 P302	<ul> <li>Keep away from heat, hot surfaces, op</li> <li>Keep container tightly closed.</li> <li>Ground/Bond container and receiving</li> <li>Use explosion-proof electrical equipme</li> <li>Use only non-sparking tools.</li> <li>Take precautionary measures against</li> <li>Wash hands, forearms and face thoroid</li> <li>Wear eye protection, face protection, p</li> <li>+P352 - If on skin: Wash with plenty of w</li> <li>+P361+P353 - If on skin (or hair): Take of</li> <li>vith water/shower</li> <li>Specific treatment (see Hazardous con</li> <li>+P364 - Take off contaminated clothing</li> <li>+P378 - In case of fire: Use Water spray</li> <li>to extinguish.</li> <li>+P235 - Store in a well-ventilated place.</li> <li>Dispose of contents/container to hazardous con</li> </ul>	equipment ent static discharge ughly after hand protective clothir vater off immediately a mponent(s) for la lical advice/atter and wash it befo , Alcohol resista Keep cool. rdous or special	Iing. ng, protective gloves. all contaminated clothing. Rinse abeling on this label) ntion. pre reuse. int foam, Dry chemical, Carbon waste collection point, in
2.3. Other hazards				
No additional information available SECTION 3: Composition/Inform	ation on in	aradiants		
3.1. Substances		greatents		
Not applicable				
3.2. Mixtures				
Name		Product identifier	%	Classification according to Directive 67/548/EEC

Name

METHYL TERT-BUTYL ETHER UNLABELED

MONO-N-PENTYL PHTHALATE UNLABELED

METHYL TERT-BUTYL ETHER UNLABELED

(CAS-No.) 1634-04-4

(CAS-No.) 24539-56-8

**Product identifier** 

(CAS-No.) 1634-04-4 (EC-No.) 216-653-1

(EC Index-No.) 603-181-00-X (REACH-no) 01-2119452786-27

(EC Index-No.) 603-181-00-X (REACH-no) 01-2119452786-27

(EC-No.) 216-653-1

99.987

0.013

%

99.987

F; R11

Xi; R38

Xi; R36/38 N; R50/53 Repr.Cat.1; R60 Repr.Cat.1; R61

**Classification according to** 

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

Flam. Liq. 2, H225 Skin Irrit. 2, H315

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
MONO-N-PENTYL PHTHALATE UNLABELED	(CAS-No.) 24539-56-8	0.013	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Repr. 1B, H360 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
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-N-PENTYL PHTHALATE UNLABELED	(CAS-No.) 24539-56-8	0.013	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Repr. 1A, H360 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

### Full text of R- and H- phrases: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measur	es
First-aid measures general	: If you feel unwell, seek medical advice (show the label where possible). Evacuate danger area.
First-aid measures after inhalation	: 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.
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.
4.2. Most important symptoms and	effects, both acute and delayed
Symptoms/effects after inhalation	: May be harmful if inhaled. May cause respiratory irritation.
Symptoms/effects after skin contact	: Causes skin irritation.
Symptoms/effects after eye contact	: May cause eye irritation.
Symptoms/effects after ingestion	: May be harmful if swallowed.
4.3. Indication of any immediate me	edical attention and special treatment needed
No additional information available	
SECTION 5: Firefighting measur	es
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).
5.2. Special hazards arising from the	ne substance or mixture
Fire hazard	: 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

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

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6.3. Methods and material for	containment and cleaning up				
For containment	it. Small quantities of liquid s container for disposal. For la	y spills as soon as possible, using an absorbent material to collect pill: take up in non-combustible absorbent material and shovel into rge spills, confine the spill in a dike and charge it with wet sand or sposal. This material and its container must be disposed of in a gislation.			
Other information	: Dispose of materials or solid	residues at an authorized site.			
6.4. Reference to other section	IS				
For further information refer to section	13.				
<b>SECTION 7: Handling and st</b>	orage				
7.1. Precautions for safe hand	ling				
Precautions for safe handling	explosion-proof equipment.	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	•	<ul> <li>Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.</li> </ul>			
7.2. Conditions for safe storage, including any incompatibilities					
Technical measures	: Store in a well-ventilated pla	ce. Keep container tightly closed.			
Storage conditions	: Store refrigerated (-5 °C to s	Store refrigerated (-5 °C to 5 °C). Protect from light.			
7.3. Specific end use(s)					
No additional information available					
SECTION 8: Exposure contr	ols/personal protection				
8.1. Control parameters					
MONO-N-PENTYL PHTHALATE U	NLABELED 100 UG/ ML IN MTBE				
Italy - Portugal - USA ACGIH ACC	GIH TWA (ppm)	50.00000000 ppm Basis: USA. ACGIH Threshold Limit Values (TLV) Remarks: Upper Respiratory Tract irritation. Kidney damage. Confirmed animal			

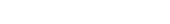
		carcinogen with unknown relevance to humans.
USA OSHA	OSHA PEL (Ceiling) (mg/m <sup>3</sup> )	144 mg/m <sup>3</sup> Basis: California permissible exposure limits for chemical contaminants. (Title 8, Article 107).
USA OSHA	OSHA PEL (Ceiling) (ppm)	40 ppm Basis: California permissible exposure limits for chemical contaminants. (Title 8, Article 107).
MONO-N-PENTYL PHTHALA	TE UNLABELED (24539-56-8)	
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	5 mg/m³
USA OSHA	OSHA PEL (STEL) (mg/m <sup>3</sup> )	5 mg/m³
METHYL TERT-BUTYL ETHE	R 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/m <sup>3</sup> )	144 mg/m <sup>3</sup> 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.

Personal protective equipment



: Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.



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

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

: Wear suitable protective clothing and gloves.

Wear suitable protective clothing and gloves.

Materials for protective clothing Hand protection Eye protection Skin and body protection

:

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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 chemica						
9.1. Information on basic physical and chemical properties						
The properties listed below are for the solvent, the main comp						
Physical state	: Liquid					
Appearance	: Liquid					
Molecular mass	: 88.15 g/mol : Colorless					
Color						
Odor 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

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).					
<b>SECTION 11: Toxicological informatio</b>	on la constant de la				
11.1. Information on toxicological effects					
Acute toxicity :	Not classified				
MONO-N-PENTYL PHTHALATE UNLABELED	100 UG/ ML IN MTBE				
LD50 oral rat	4000 mg/kg				

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6, 2012 / Rules and Regulations	
MONO-N-PENTYL PHTHALATE UNLABELEI	0 100 UG/ ML IN MTBE
LC50 inhalation rat (ppm)	23576 ppm/4h
MONO-N-PENTYL PHTHALATE UNLABELEI	) (24539-56-8)
LD50 oral rat	30000 mg/kg
LD50 dermal rabbit	25000 mg/kg
ATE CLP (oral)	30000.000 mg/kg body weight
ATE CLP (dermal)	25000.000 mg/kg body weight
METHYL TERT-BUTYL ETHER UNLABELED	(1634-04-4)
LD50 oral rat	4000 mg/kg
LC50 inhalation rat (ppm)	23576 ppm/4h
Skin corrosion/irritation	: Causes skin irritation.
	Skin – Rabbit - Causes skin irritation
Serious eye damage/irritation	: Eyes – Rabbit - 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. central nervous system. Dizziness. Nausea. Vomiting. IF INHALED: Risk of pneumonia.
IARC group	: 2B
Symptoms/effects after inhalation	: May be harmful if inhaled. May cause respiratory irritation.
Symptoms/effects after skin contact	Causes skin irritation.
Symptoms/effects after eye contact	: May cause eye irritation.
Symptoms/effects after ingestion	: May be harmful if swallowed.

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SECT	ION 12: Ecological information
12.1.	Toxicity

MONO-N-PENTYL 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
MONO-N-PENTYL PHTHALATE UNLABELED (24539-56-8)	
LC50 fish 1	0.67 mg/l Pimephales promelas (fathead minnow)
EC50 Daphnia 1	0.16 mg/l daphnia magna (Water flea) -48 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

2.2. Persistence and degradability		
MONO-N-PENTYL PHTHALATE UNLABELED	100 UG/ ML IN MTBE	
Persistence and degradability	Not readily biodegradable. (OECD 301D method).	
METHYL TERT-BUTYL ETHER UNLABELED (1634-04-4)		
Persistence and degradability	Not readily biodegradable. (OECD 301D method).	
12.3. Bioaccumulative potential		
MONO-N-PENTYL PHTHALATE UNLABELED 100 UG/ ML IN MTBE		
Log Pow 1.06		

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2.4.       Mobility in solid         6 additional information available         2.5.       Results (FPT and VPR) assessment         10 additional information available         2.6.       Other adverse effects         10 additional information available         ECTION 13: Disposal considerations         3.1.       Waste treatment methods         adjoinal algoitability (waste)       : Waste materials should be disposal foronal disposal company. Contact a licensed probability invested disposal device to disposal or of the material.         roductPackaging disposal recommendations       : Differ surplus and more regulations.         roductPackaging disposal for DMIND       : Waste materials         toductPackaging disposal for DMIND       : Dispose of as mused product.         ECTION 14: Transport information       : Dispose of as mused product.         ECTION 14: Transport information       : UN3388         42. UN proper shipping name       : Waste disposal device to dispose of the material.         roper Shipping Name (COT)       : 3 - Flammable and combustible liquid 49 CFR 173.120         sacard labels (DOT)       : 4 - Submized Effect. Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31H21). Additional Requirement. Only liquids with a vapor pressure less than or equal to 110 kPa at 50 (11 bar at 122 p. or 130 km at 50 (12 bar at 132 p. f) are authorized. TTP 1- TTP 2/140(2) Minus to the maxinum and site 22 p. or 130 km at 50 (21 bar at 1	5, 2012 / Rules and Regulations	
Bioaccumulative potential         Bioaccumulative Potential: Oncortynchus mykiss (rainbow trout) - 100 d.           METHYL TERT-BUTL ETHER UNLABELED (634-04-0) Log Pow         1.06           2.4         Möbility in soll to additional information available         1.06           2.5.         Other adverse effects to additional information available         1.06           2.6.         Other adverse effects to additional information available         1.06           2.6.         Other adverse effects to additional information available         1.07           2.6.         Other adverse effects to additional information available         1.08           2.7.         Mathyline Adverse adverse effects to additional information         1.08	MONO-N-PENTYL PHTHALATE UNLABELED	(24539-56-8)
METHYL TERT-BUTYL ETHER UNLABELED (1634-04-4)         Log Pow       1.06         Log Pow       1.06         2.4       Möllik yn soll         to additional information available       2.5         2.5       Festules OFB and vPoB assessment         to additional information available       2.6         2.6       Other adverse effects         to additional information available       2.6         EECTION 13: Disposal considerations       : Waste treatment methods         eigenal legistion (waste)       : Waste materials should be disposed of under conditions which meet Federal, State, and local environmental control regulations.         totoluctPackaging disposal recommendations       : Other adverse effects         totoluctPackaging disposal recommendations       : Other adverse induced in adverse dispose of a surused product.         EECTION 14: Transport information       : Dispose of a surused product.         EECTION 14: Transport information       : 2398         42. UN proper shipping name       : UN2398         42. UN proper shipping name       : Bio-Autorized IBCS, Metal (314, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31H21). Additional Requirement: Only liquids with a vapor pressure lass than or equals 10 10 kPa at 05 (1.1) km at 13F) F an authorized (31H21). Additional Requirement: Only liquids with a vapor pressure lass than or equals 10 10 kPa at 05 (1.1) km at 13F) F an authorized (31H21). Additional Requireme	Bioconcentration factor (BCF REACH)	113
Log Pow       1.06         2.4.       Mobility in soil       os additional information available         2.5.       Results of PBT and VPUB assessment       os additional information available         2.6.       Other adverse effects       over considerations         3.1.       Weste materials should be disposed of under conditions which meet Faderal, State, and local envice to regulations.         roduutPackaging disposal recommendations       : Other adverse of this material.         cology - waste materials       : Dispose of as unused product.         ECTION 142.       If Transport Information         a econdance with ADR / RID / IMDG / IATA / ADN         4.1.       UN mometr         nore of Shoping Name (DOT)       : Wester materials liquid         adving group (DOT)       : I Meduit Interpret Moderation available liquid 49 CFR 173.120         adving group (DOT)       : I Meduit Darger of Tiling material 225 or 13 bits at 125 (-13 bits at 132 F) ar 130 bits at 130 F) are autorized.         roduut adverse (48 CFR 172.xxx)       : 3 - Rammable liquid         VDT Special Provisions (49 CFR 173.xxx)	Bioaccumulative potential	Bioaccumulative Potential: Oncorhynchus mykiss (rainbow trout) - 100 d.
2.4.       Mobility in soll         6 additional information available         2.5.       Results (FBT and VPK) assessment         to additional information available         2.6.       Other adverse effects         a additional information available         2.6.       Other adverse effects         a additional information available         ECTION 13: Disposal considerations         adgional logistation (wate)         :       Waste treatment methods         :       Differ surplus and non-recyclable solutions to a leansed disposal company. Contact a licensed profesion/solutions         :       Dispose of as unused product.         ECTION 14: Transport information         :       Dispose of as unused product.         ECTION 14: Transport information         :       Dispose of as unused product.         ECTION 14: Transport information         :       Dispose of as unused product.         ECTION 14: Transport information         :       Dispose of as unused product.         ECTION 14: Transport information         :       Dispose of as unused product.         ECTION 14: Transport information         :       Dispose of as unused product.         ECTION 14: Transport information         :       Disp	METHYL TERT-BUTYL ETHER UNLABELED	(1634-04-4)
bi additional information available          2.5.       Results of PBT and VPB assessment <ul> <li>bit additional information available</li> <li>2.6.</li> <li>Chier adverse effects       <ul> <li>bit additional information available</li> <li>2.7.</li> <li>Chier adverse effects</li> <li>bit additional information available</li> <li>2.8.</li> <li>Chier adverse effects</li> <li>Construction available</li> <li>Construction available available available available available available available</li> <li>Construction available</li> <li>Constructin the contreval tof</li></ul></li></ul>	Log Pow	1.06
2.5.       Results of PBT and vPVB assessment         to additional information available         2.6.       Other adverse effects         a additional information available         Section 10: 10: 10: 10: 10: 10: 10: 10: 10: 10:	12.4. Mobility in soil	
le additional information available 2.6. Other adverse offects 3.1 Waste treatment methods 4.2 Waste treatment methods 4.2 Waste treatment methods 4.2 Waste treatment methods 4.2 Waste treatment methods 4.3 Waste treatment methods 4.4 Waste materials 4.5 Disposal considerations 4.5 Disposal materials 4.5 Disp	No additional information available	
le additional information available 2.6. Other adverse offects 3.1 Waste treatment methods 4.2 Waste treatment methods 4.2 Waste treatment methods 4.2 Waste treatment methods 4.2 Waste treatment methods 4.3 Waste treatment methods 4.4 Waste materials 4.5 Disposal considerations 4.5 Disposal materials 4.5 Disp	12.5. Results of PBT and vPvB assessmen	st .
2.6. Other adverse effects         to additional information available         SECTION 13: Disposal considerations         5.1. Wraste restiment methods         tegional legislation (waste)       : Waste materials should be disposed of under conditions which meet Federal, State, and local environmental control regulations.         roduct/Packaging disposal recommendations       : Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal product.         SECTION 14: Transport information are disposal of under conditions which meet Federal, State, and local environmental control regulations.         accordance with NDR/ RID / IMDG / IATA / ADN         4.1. UN number         NNo. (DOT)       : 2398         4.2. UN proper shipping name         roper shipping name (DOT)       : Methyl tert-budy effer         tass (DOT)       : 3 - Flammable and combustible liquid 49 CFR 173.120         acking group (DOT)       : 1 - Medium Danger         : 1 - Medium Danger       : 1 - Medium Requirement. Only liquids with a vapor pressure less than or equal to 10 to 10 to 12 to 27 + 27 + 27 (4)(2) Normal		1
lo additional information available  EGCTION 13: Disposal considerations 3.1. Waste treatment methods equival legislation (waste)  EGCTION 13: Disposal considerations  Vaste treatment methods environmental control regulations.  ForductiPackaging disposal recommendations  Collegy - waste materials  Collegy - waster materials  Colleg		
St. Waste treatment methods       :         segional legislation (waste)       :       :         isogional legislation (waste)       :       :         reductPackaging 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.         cology - waste materials       :       Dispose of as unused product.         SECTION 142 Transport information       vascondance with ADR / RID / IMDG / IATA / ADN         4.1       UN number       NNo.(DOT)       :       2.398         NNO.(DOT)       :       2.398       .       .         VDT An no.       UN2398       .       .       .       .         dass (DOT)       :       :       Methyl tent-butyl ether       .		
3.1. Waste treatment methods       : Waste materials should be disposed of under conditions which meet Federal, State, and local environmental control regulations.         roductPackaging disposal recommendations       : Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed apposal company. Contact allocates c		
legional legislation (waste)       : Waste materials should be disposed of under conditions which meet Federal, State, and local crivinonmental control regulations.         roduct/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.         cology - waste materials       : Dispose of as unused recommendations:         secordance with ADR / RID / IMDG / IATA / ADN         4.1.       UN number         hNNo.(DOT)       : 2398         VOT NA no.       UN2398         4.2.       UN proper shipping name         roper Shipping Name (DOT)       : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120         lazard labels (DOT)       : 3 - Flammable liquid         acking group (DOT)       : II - Medium Danger         OT Special Provisions (49 CFR 172.102)       : B2 - Autorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite diving: Degree of filing avert, it is the maximum mean bulk temperature during transport, and it is the temperature in degrees celsius of the inquid during filing.         OT Packaging Non Buik (49 CFR 173.xxx)       : 202         OT Packaging Non Buik (49 CFR 173.xxx)       : 202         OT Packaging Non Buik (49 CFR 173.xxx)       : 202         OT Packaging Non Buik (49 CFR 173.xxx)       : 202         OT Packaging Buik (49 CFR 173.xxx)	SECTION 13: Disposal consideration	S
environmental control regulations. roduct/Packaging disposal recommendations : Differ surplus and non-recycleb solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. accordance with ADR / RD / MDC / IATA / ADN <b>4.1 UN number</b> NANG(DOT) : 2398 <b>4.2. UN proper shipping name</b> troper shipping Name (DOT) : Methyl tert-butyl effer lass (DOT) : 3 - Class 3 - Fjammable and combustible liquid 49 CFR 173.120 lasard labels (DOT) : 3 - Liammable liquid acking group (DOT) : I Methyl tert-butyl effect lass (DOT) : I II - Medium Danger i II - Medium Danger	13.1. Waste treatment methods	
cology - waste materials       : Dispose of as unused product.         Cology - waste materials       : Dispose of as unused product.         Correct Cology - waste material.       : Dispose of as unused product.         Accordance with ADR / RID / INDG / IATA / ADN       : All - View of a subscription of the cology o	Regional legislation (waste)	
Section 14: Transport information         accordance with ADR / RID / IMDG / IATA / ADN         4.1 UN number         NNo.(DOT)         INNo.(DOT)         Colspan="2">Sage         OT NA no.         UN2398         42. UN proper shipping name         toper Shipping Name (DOT)         Is a Class 3 - Flammable and combustible liquid 49 CFR 173.120         Is a Class 3 - Flammable and combustible liquid 49 CFR 173.120         Is a Class 3 - Flammable inquid         Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31F21). Additional Requirement: Only liquids with avapor pressure less than or equal to 110 KPa at 50 C (1.1 bar at 125 F), or 130 KP at 55 C (1.3 bar at 11F) F) are authorized.         T + The maximum degree of filling must be at 50 C (1.1 bar at 120; Composite (31F21). Additional Requirement: Only liquids with avapor pressure less than or equal to 110 KPa at 50 C (1.1 bar at 120; P) or 130 KP at 55 C (1.3 bar at 11F) F) are authorized.         T + The maximum degree of filling must be the degree of filling determined by the following: Degree of filling must be to the seque of the degree of filling determined by the following: Degree of filling must be at 50 C (1.3 bar at 11F) F) are authorized.         OT Packaging Exceptions (49 CFR 173.xxx)       : 202         OT Packaging Bulk (49	Product/Packaging disposal recommendations	
A accordance with ADR / RID / IMDG / IATA / ADN 4.1. UN number VN0.(DOT) : 2398 4.2. UN proper shipping name Toper Shipping Name (DOT) : Methyl terr-butyl ether Value (DOT) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120 Lazard labels (DOT) : 3 - Flammable liquid Control (DOT) : 11 - Medium Danger VOT Special Provisions (49 CFR 172.102) : 182 - Authorized IBCs: Metal (31A, 31B and 31N): Rigid plastics (31H1 and 31H2); Composite (31H2/1), 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. 177 + 4 Tra2.74(d)(2) Normal	Ecology - waste materials	: Dispose of as unused product.
4.1. UN number         NNN.(DOT)       : 2398         VOT NA no.       UN2398         4.2. UN proper shipping name       Topper Shipping Name (DOT)         ilass (DOT)       : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120         lass (DOT)       : 3 - Flammable liquid         view of the state of the	SECTION 14: Transport information	
NN-No.(DOT)       : 2398         VOT NA no.       UN2398         4.2.       UN proper shipping name         troper Shipping Name (DOT)       : Methyl tert-butyl ether         lass (DOT)       : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120         lass (DOT)       : 3 - Flammable liquid         acking group (DOT)       : II - Medium Danger         iacking group (DOT)       : II - Medium Danger         OT Special Provisions (49 CFR 172.102)       : IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31H21). Additional Requirement: Only liquids with vayop 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 (J(2)) Normal	In accordance with ADR / RID / IMDG / IATA / AD	N
NOT NA no.       UN2398         4.2. UN proper shipping name       :         troper Shipping Name (DOT)       :       Methyl terl-bulyl ether         iaas (DOT)       :       :       O Class 3 - Flammable and combustible liquid 49 CFR 173.120         lazard labels (DOT)       :       :       - Class 3 - Flammable liquid         acking group (DOT)       :       :       :       - Class 3 - Flammable liquid         acking group (DOT)       :       :       I. Medium Danger       :         iacking group (DOT)       :       :       I. Be 2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31H21). 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. 177 4 1178, 275(0)(3)         TP 4 - The maximum degree of filling = 97 / 1 + a (tr - tf) Where: tr is the maximum mean bulk temperature in during transport, and ti is the temperature in degrees celsius of the liquid during filling.         OT Packaging Exceptions (49 CFR 173.xxx)       :       150         OT Packaging Buk (49 CFR 173.xxx)       :       202         OT Packaging Buk (49 CFR 173.xxx)       :       202         OT Packaging Buk (49 CFR 173.xxx)       :       202         OT Packaging Buk (49 CFR 173.xxx)       :       242         OT Packaging Buk	14.1. UN number	
4.2. UN proper shipping name       Image: Control of the second sec	UN-No.(DOT)	: 2398
troper Shipping Name (DOT)       :       Methyl tert-butyl ether         itass (DOT)       :       3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120         lazard labels (DOT)       :       3 - Flammable liquid         views       itage of the state	DOT NA no.	UN2398
troper Shipping Name (DOT)       :       Methyl tert-butyl ether         itass (DOT)       :       3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120         lazard labels (DOT)       :       3 - Flammable liquid         views       itage of the state	14.2 UN proper shipping name	
<ul> <li>stass (DOT)</li> <li>is 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120</li> <li>is 3 - Flammable liquid</li> <li>is 3 - Class 3 - Flammable liquid</li> <li>is 4 - Authorized IBCs: Metal (31A, 31B and 31N): Rigid plastics (31H1 and 31H2): Composite (31H21). 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 (j(2) Normal</li></ul>	11 11 0	· Methyl tert-hutyl ether
lazard labels (DOT)       : 3 - Flammable liquid         vacking group (DOT)       : II - Medium Danger         vort Special Provisions (49 CFR 172:102)       : IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31H21). 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		
acking group (DOT)       :       II - Medium Danger         VOT Special Provisions (49 CFR 172.102)       :       IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31H21). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (11 bar at 122 F), or 130 kPa at 55 C (13 bar at 131 F) are authorized. T7 - 4 178.274(d)(2) Normal		
NOT Special Provisions (49 CFR 172.102)       : IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31H21). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 55 C (1.3 bar at 131 F) are authorized. T7 - 4 178.274(d)(2) Normal		FLAMMABLE LIQUID
(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.         (77 - 4 178.274(d)(2) Normal	Packing group (DOT)	: II - Medium Danger
OT Packaging Non Bulk (49 CFR 173.xxx)       : 202         OT Packaging Bulk (49 CFR 173.xxx)       : 242         OT RQ       : 1000 lbs         tarine pollutant       : No         4.3. Additional information       :         imergency Response Guide (ERG) Number       : 127         ther information       : No supplementary information available.         ipecial transport precautions       : Not classified as dangerous in the meaning of transport regulations.         Overland transport       : Il         tacking group (ADR)       : Il         class (ADR)       : 3 - Flammable liquid	DOT Special Provisions (49 CFR 172.102)	<ul> <li>(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.</li> <li>T7 - 4 178.274(d)(2) Normal</li></ul>
DOT Packaging Non Bulk (49 CFR 173.xxx)       : 202         DOT Packaging Bulk (49 CFR 173.xxx)       : 242         DOT RQ       : 1000 lbs         tarine pollutant       : No         4.3. Additional information	DOT Packaging Exceptions (49 CFR 173.xxx)	
Additional information       : 1000 lbs         4.3. Additional information       : No         Mergency 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       : II         tacking group (ADR)       : I         is as (ADR)       : 3 - Flammable liquid	DOT Packaging Non Bulk (49 CFR 173.xxx)	: 202
Marine pollutant       : No         4.3. Additional information	DOT Packaging Bulk (49 CFR 173.xxx)	: 242
4.3. Additional information         imergency Response Guide (ERG) Number       : 127         Other information       : No supplementary information available.         epecial transport precautions       : Not classified as dangerous in the meaning of transport regulations.         Overland transport       : II         Packing group (ADR)       : II         Class (ADR)       : 3 - Flammable liquid	DOT RQ	: 1000 lbs
imergency 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       : Il         class (ADR)       : 3 - Flammable liquid	Marine pollutant	: No
Deter information       : No supplementary information available.         ispecial transport precautions       : Not classified as dangerous in the meaning of transport regulations.         Overland transport       : Il         class (ADR)       : 3 - Flammable liquid	14.3. Additional information	
Appecial transport precautions       : Not classified as dangerous in the meaning of transport regulations.         Overland transport       : Il         Class (ADR)       : 3 - Flammable liquid	Emergency Response Guide (ERG) Number	: 127
Overland transport       Packing group (ADR)       : II       Class (ADR)       : 3 - Flammable liquid	Other information	: No supplementary information available.
Packing group (ADR)       : II         Class (ADR)       : 3 - Flammable liquid	Special transport precautions	
Class (ADR) : 3 - Flammable liquid	Overland transport	
	Packing group (ADR)	: 11
	Class (ADR)	: 3 - Flammable liquid
	18/05/2020	

### ULM-7393-MT-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

26, 2012 / Rules and Regulations	
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 (49 CFR 173.27)	: 5L
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.
-F	

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

Not applicable

<b>SECTION 15: Regulatory informatio</b>	n
15.1. US Federal regulations	
MONO-N-PENTYL PHTHALATE UNLABELE	D 100 UG/ ML IN MTBE
Subject to reporting requirements of United St	ates 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
MONO-N-PENTYL PHTHALATE UNLABELE	D (24539-56-8)
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 311/312 Hazard Classes	Delayed (chronic) health hazard
SARA Section 313 - Emission Reporting	Subject to reporting requirements of United States SARA Section 313
METHYL TERT-BUTYL ETHER UNLABELED	D (1634-04-4)
Subject to reporting requirements of United St	ates 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
18/05/2020	EN (English US) 8/10

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### Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### 15.2. International regulations CANADA MONO-N-PENTYL 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-N-PENTYL PHTHALATE UNLABELED 100 UG/ ML IN MTBE() U.S. - California - Proposition 65 - Carcinogens List No U.S. - California - Proposition 65 - Developmental No Toxicity U.S. - California - Proposition 65 - Reproductive No Toxicity - Female U.S. - California - Proposition 65 - Reproductive No Toxicity - Male 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-N-PENTYL PHTHALATE UNLABELED (24539-56-8) 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 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 **MONO-N-PENTYL PHTHALATE UNLABELED (24539-56-8)** 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) 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**

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:

Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Flam. Liq. 2	Flammable liquids Category 2
Repr. 1B	Reproductive toxicity Category 1B
Skin Irrit. 2	Skin corrosion/irritation Category 2
H225	Highly flammable liquid and vapor

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### Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

H315	Causes skin irritation
H319	Causes serious eye irritation
H360	May damage fertility or the unborn child
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
R11	Highly flammable
R36/38	Irritating to eyes and skin
R38	Irritating to skin
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R60	May impair fertility
R61	May cause harm to the unborn child
F	Highly flammable
Ν	Dangerous for the environment
Xi	Irritant

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.
Hazard 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