

4-(1,3-DIMETHYL-1-ETHYLPENTYL)PHENOL (RING-13C6, 99%) 100 UG/ML IN METHANOL

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: 20/03/2017 Revision date: 03/08/2018 Supersedes: 20/03/2017

CLM-8356-S

Version: 1.1

	 00,00,2010	

SECTION 1: Identific	cation of the substance/mixture and of the company/undertaking
1.1. Product identified	
Product form	: Mixtures
Product name	: 4-(1,3-DIMETHYL-1-ETHYLPENTYL)PHENOL (RING-13C6, 99%) 100 UG/ML IN METHANC
Product code	: CLM-8356-S
1.2. Relevant identif	fied uses of the substance or mixture and uses advised against
1.2.1. Relevant identif	fied uses
Main use category	: Professional use
Industrial/Professional use	e spec : For professional use only
1.2.2. Uses advised ag	nainst
No additional information a	•
	upplier of the safety data sheet
50 Frontage Road Andover, MA 01810 USA USA: 1-800-322-1174 Int <u>cilsales@isotope.com</u> w	ıt: 1-978-749-8000 /ww.isotope.com
Emergency tele	phone number
Emergency numbers:	
Chemtrec: 1-800-424-930 International: 1-703-741-5	
SECTION 2: Hazards	s identification
2.1. Classification o	of the substance or mixture
Classification according	to Regulation (EC) No. 1272/2008 [CLP]
Flam. Liq. 2	H225
Acute Tox. 3 (Oral)	H301
Acute Tox. 3 (Dermal)	H311
Acute Tox. 3 (Inhalation)	H331
Skin Irrit. 2	H315
Eye Irrit. 2	H319
STOT SE 1	H370

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

F; R11 T; R23/24/25 T; R39/23/24/25 Xi; R36/38 Xi; R39 Full text of R-phrases: see section 16

GHS-US classification

Flam. Liq. 2 H225 Acute Tox. 3 (Oral) H301 Acute Tox. 3 (Dermal) H311 Acute Tox. 3 (Inhalation) H331 Skin Irrit. 2 H315 Eye Irrit. 2 H319 STOT SE 1 H370

Full text of H statements : see section 16

UG/ML IN METHANOL CLM-8356-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

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements	
Labeling according to Regulation (EC) No	. 1272/2008 [CLP]
Hazard pictograms (CLP)	
	GHS02 GHS08 GHS06
Signal word (CLP)	: Danger
Hazard statements (CLP)	 H225 - Highly flammable liquid and vapour H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled H315 - Causes skin irritation H319 - Causes serious eye irritation H370 - Causes damage to organs (eyes, central nervous system, heart, liver, kidneys) (if inhaled, if swallowed, oral)
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 P260 - Do not breathe dust, gas, mist, vapors. P264 - Wash hands thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P271 - Use only outdoors or in a well-ventilated area.
GHS-US labeling	
Hazard pictograms (GHS-US)	
Signal word (CHS LIS)	GHS02 GHS08 GHS06
Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	 H225 - Highly flammable liquid and vapour H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled H315 - Causes skin irritation H319 - Causes serious eye irritation H370 - Causes damage to organs (central nervous system, eyes, heart, kidneys, liver) (Dermal, Inhalation, oral)
Precautionary statements (GHS-US)	 P210 - Keep away from sparks, open flames, hot surfaces, heat 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. P260 - Do not breathe vapors, mist, spray, gas. P261 - Avoid breathing vapors, mist, gas, fume. P264 - Wash hands thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P271 - Use only outdoors or in a well-ventilated area. P280 - Wear protective gloves, protective clothing. P301+P310 - If swallowed: Immediately call a doctor P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P307+P311 - If exposed: Call a poison center/doctor P311 - Call a doctor P312 - Call a doctor if you feel unwell

UG/ML IN METHANOL CLM-8356-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

P321 - Specific treatment (see Hazardous component(s) for labeling on this label) P322 - Specific treatment (see Hazard pictograms (CLP) on this label)
P330 - Rinse mouth.
P332+P313 - If skin irritation occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P361+P364 - Take off immediately all contaminated clothing and wash it before reuse.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P370+P378 - In case of fire: Use carbon dioxide (CO2), alcohol resistant foam, D-powder to extinguish.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P403+P235 - Store in a well-ventilated place. Keep cool.
P405 - Store locked up.
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

PBT: not relevant - no registration required

3.1. Substances

Not applicable

22	М	ivture

Name	Product identifier	%	Classification according to
		,0	Directive 67/548/EEC
100% METHANOL UNLABELED	(CAS-No.) 67-56-1 (EC-No.) 200-659-6 (EC Index-No.) 603-001-00-X (REACH-no) 01-2119433307-44	99.987359	F; R11 T; R39/23/24/25 Xi; R36/38
4-(1,3-DIMETHYL-1-ETHYLPENTYL)PHENOL (RING-13C6, 99%)	(CAS-No.) 186825-36-5 (Unlabeled) (EC Index-No.) 601-053-00-8 (Unlabeled)	0.013	Xn; R22 N; R50/53 Repr.Cat.3; R62 Repr.Cat.3; R63 C; R35 Xi; R41
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
100% METHANOL UNLABELED	(CAS-No.) 67-56-1 (EC-No.) 200-659-6 (EC Index-No.) 603-001-00-X (REACH-no) 01-2119433307-44	99.987359	Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation:vapour), H331 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 1, H370
4-(1,3-DIMETHYL-1-ETHYLPENTYL)PHENOL (RING-13C6, 99%)	(CAS-No.) 186825-36-5 (Unlabeled) (EC Index-No.) 601-053-00-8 (Unlabeled)	0.013	Acute Tox. 4 (Oral), H302 Skin Corr. 1, H314 Eye Dam. 1, H318 Repr. 2, H361 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Name	Product identifier	%	GHS-US classification
100% METHANOL UNLABELED	(CAS-No.) 67-56-1	99.987359	Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation:vapour), H331 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 1, H370
4-(1,3-DIMETHYL-1-ETHYLPENTYL)PHENOL (RING-13C6, 99%)	(CAS-No.) 186825-36-5 (Unlabeled)	0.013	Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314 Eye Dam. 1, H318 Repr. 2, H361 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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

UG/ML IN METHANOL CLM-8356-S

Safety Data Sheet

SECTION 4: First aid measures	
4.1. Description of first aid measures	\$
First-aid measures general	: If medical advice is needed, have product container or label at hand. Call a physician immediately. Evacuate danger area.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Call a doctor.
First-aid measures after skin contact	: Rinse skin with water/shower. Take immediately victim to hospital. Remove/Take off immediately all contaminated clothing. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention
First-aid measures after ingestion	: Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mout Call a physician immediately.
4.2. Most important symptoms and e	ffects, both acute and delayed
Symptoms/effects after inhalation	: Toxic if inhaled.
Symptoms/effects after skin contact	: Toxic in contact with skin. Causes skin irritation.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: Toxic if swallowed.
1.3. Indication of any immediate med	lical attention and special treatment needed
Freat symptomatically.	
SECTION 5: Firefighting measure	S
5.1. Extinguishing media	
Suitable extinguishing media	: Dry powder. Dry sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the	substance or mixture
Fire hazard	: Highly flammable liquid and vapour.
Reactivity	: Vapors may form flammable mixture with air. Highly flammable liquid and vapour.
5.3. Advice for firefighters	
Firefighting instructions	: Do not enter fire area without proper protective equipment, including respiratory protection.
Protection during firefighting	 Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. Wear recommended personal protective equipment.
Other information	: Use water spray to cool exposed surfaces.
SECTION 6: Accidental release m	easures
	e equipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Wear respiratory protection. Do not breathe dust, mist, gas, spray, vapors, fume. Avoid contact with skin, eyes and clothing. Ventilate spillage area. Remove all sources of ignition. No open flames, no sparks, and no smoking. Ensure adequate air ventilation. 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. D	to not allow to enter drains or water courses. Avoid release to the environment.
3.3. Methods and material for contai	nment and cleaning up
For containment	: Dike and contain spill.
Methods for cleaning up	 Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters. This material and its container must be disposed of in a safe way, and as per local legislation.
Other information	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	
For further information refer to section 13.	
SECTION 7: Handling and storage	9
7.1. Precautions for safe handling	
Additional hazards when processed	: Handle empty containers with care because residual vapors are flammable.
03/08/2018	EN (English US) 4/1

UG/ML IN METHANOL CLM-8356-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

Precautions for safe handling	: No open flames. No smoking. Use only non-sparking tools. Do not breathe dust, gas, vapors, fume.
Hygiene measures	: Do not eat, drink or smoke when using this product. Wash hands, forearms and face thoroughly after handling.
7.2. Conditions for safe storage, inc	luding any incompatibilities
Technical measures	: Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof ventilating equipment.
Storage conditions	: Store at room temperature away from light and moisture.
Incompatible materials	: Heat sources.

7.3. Specific end use(s) No additional information available

SECTION 8: Exposure c	ontrols/personal protection	
3.1. Control parameters		
4-(1,3-DIMETHYL-1-ETHYLP	ENTYL)PHENOL (RING-13C6, 99%) 100 UG/MI	
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	200.00000000 ppm Basis: USA. ACGIH Threshold Limit Values (TLV)
Italy - Portugal - USA ACGIH	ACGIH STEL (ppm)	250 ppm Basis: USA. ACGIH Threshold Limit Values (TLV)
Italy - Portugal - USA ACGIH	Remark (ACGIH)	Headache. Nausea. Dizziness. Eye damage. Substances for which there is a Biological Exposure Index or Indices (see BEI section). Danger of cutaneous absorption.
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	260 mg/m ³ Basis: NIOSH Recommended Exposure Limits
USA NIOSH	NIOSH REL (TWA) (ppm)	200 ppm Basis: NIOSH Recommended Exposure Limits
USA NIOSH	NIOSH REL (STEL) (mg/m ³)	325 mg/m ³ Basis: NIOSH Recommended Exposure Limits
USA NIOSH	NIOSH REL (STEL) (ppm)	250 ppm Basis: NIOSH Recommended Exposure Limits
USA NIOSH	Remark (NIOSH)	Potential for dermal absorption.
USA OSHA	OSHA PEL (TWA) (mg/m³)	260 mg/m ³ Basis: USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants - 1910.1000. California permissible exposure limits for chemical contaminants (Title 8, Article 107)
USA OSHA	OSHA PEL (TWA) (ppm)	200 ppm Basis: USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants - 1910.1000. California permissible exposure limits for chemical contaminants (Title 8, Article 107)
USA OSHA	OSHA PEL (STEL) (mg/m³)	325 mg/m ³ Basis: USA. OSHA - Table Z-1 Limits for Air Contaminants - 1910.1000. California permissible exposure limits for chemical contaminants (Title 8, Article 107)
USA OSHA	OSHA PEL (STEL) (ppm)	250 ppm Basis: USA. OSHA - Table Z-1 Limits for Air Contaminants - 1910.1000. California permissible exposure limits for chemical contaminants (Title 8, Article 107)
USA OSHA	OSHA PEL (Ceiling) (ppm)	1000 ppm California permissible exposure limits for chemical contaminants (Title 8, Article 107)
USA OSHA	Remark (OSHA)	The value in mg/m3 is approximate. Skin notation.
100% METHANOL UNLABEL	ED (67-56-1)	
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	200.00000000 ppm Basis: USA. ACGIH Threshold Limit Values (TLV)
Italy - Portugal - USA ACGIH	ACGIH STEL (ppm)	250 ppm Basis: USA. ACGIH Threshold Limit Values (TLV)
Italy - Portugal - USA ACGIH	Remark (ACGIH)	Headache. Nausea. Dizziness. Eye damage. Substances for which there is a Biological Exposure Index or Indices (see BEI section). Danger of cutaneous absorption.

UG/ML IN METHANOL CLM-8356-S

Safety Data Sheet

100% METHANOL UNLA				
USA NIOSH	NIOSH REL (TWA) (mg/m ³)		260 mg/m ³ Basis: NIOSH Recommended Exposure Limits	
USA NIOSH	NIOSH REL	(TWA) (ppm)	200 ppm Basis: NIOSH Recommended Exposure Limits	
USA NIOSH	NIOSH REL	(STEL) (mg/m³)	325 mg/m ³ Basis: NIOSH Recommended Exposure Limits	
USA NIOSH	NIOSH REL	(STEL) (ppm)	250 ppm Basis: NIOSH Recommended Exposure Limits	
USA NIOSH	Remark (NIC	SH)	Potential for dermal absorption.	
USA OSHA	OSHA PEL (TWA) (mg/m³)	260 mg/m ³ Basis: USA. Occupational Exposure Limit: (OSHA) - Table Z-1 Limits for Air Contaminants - 1910.1000. California permissible exposure limits for chemical contaminants (Title 8, Article 107)	
USA OSHA	OSHA PEL (TWA) (ppm)	200 ppm Basis: USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants - 1910.1000. California permissible exposure limits for chemical contaminants (Title 8, Article 107)	
USA OSHA	OSHA PEL (STEL) (mg/m³)	325 mg/m ³ Basis: USA. OSHA - Table Z-1 Limits for Air Contaminants - 1910.1000. California permissible exposure limits for chemical contaminants (Title 8, Article 107)	
USA OSHA	OSHA PEL (STEL) (ppm)	250 ppm Basis: USA. OSHA - Table Z-1 Limits for Air Contaminants - 1910.1000. California permissible exposure limits for chemical contaminants (Title 8, Article 107)	
USA OSHA	OSHA PEL (Ceiling) (ppm)	1000 ppm California permissible exposure limits for chemical contaminants (Title 8, Article 107)	
USA OSHA	Remark (OSI	HA)	The value in mg/m3 is approximate. Skin notation.	
4-(1,3-DIMETHYL-1-ETH	YLPENTYL)PHENG	DL (RING-13C6, 99%) 100 UG/ML IN	METHANOL	
DNEL/DMEL (Workers)	· · ·			
Acute - systemic effects, o	dermal	40 mg/kg bodyweight/day		
Acute - systemic effects, i	nhalation	260 mg/m ³		
Acute - local effects, derm	nal	260 mg/cm ²		
Long-term - systemic effe	cts, dermal	40 mg/kg bodyweight/day		
Long-term - local effects,	dermal	260 mg/cm ²		
Long-term - local effects,	inhalation	260 mg/m ³		
DNEL/DMEL (General po	pulation)			
Acute - systemic effects, o	dermal	8 mg/kg body weight		
Acute - systemic effects, i	nhalation	50 mg/m³		
Acute - systemic effects, o	oral	8 mg/kg body weight		
Acute - local effects, inhal	ation	50 mg/m³		
Long-term - systemic effe	cts,oral	8 mg/kg bodyweight/day		
Long-term - systemic effe		50 mg/m³		
Long-term - systemic effe		8 mg/kg bodyweight/day		
Long-term - local effects, inhalation		50 mg/m³		
PNEC (Water)				
PNEC (Water) PNEC aqua (freshwater)		154 mg/l		
PNEC (Water) PNEC aqua (freshwater) PNEC aqua (marine wate		154 mg/l 15.4 mg/l		
PNEC (Water) PNEC aqua (freshwater) PNEC aqua (marine wate PNEC (Sediment)	r)	15.4 mg/l		
PNEC (Water) PNEC aqua (freshwater) PNEC aqua (marine wate PNEC (Sediment) PNEC sediment (freshwat	r)	-		
PNEC (Water) PNEC aqua (freshwater) PNEC aqua (marine wate PNEC (Sediment) PNEC sediment (freshwat PNEC (Soil)	r)	15.4 mg/l 570.4 mg/kg dwt		
PNEC (Water) PNEC aqua (freshwater) PNEC aqua (marine wate PNEC (Sediment) PNEC sediment (freshwat PNEC (Soil) PNEC soil	r)	15.4 mg/l		
PNEC (Water) PNEC aqua (freshwater) PNEC aqua (marine wate PNEC (Sediment) PNEC sediment (freshwat PNEC (Soil) PNEC soil PNEC (STP)	r) ter)	15.4 mg/l 570.4 mg/kg dwt 23.5 mg/kg dwt		
PNEC (Water) PNEC aqua (freshwater) PNEC aqua (marine wate PNEC (Sediment) PNEC sediment (freshwat PNEC (Soil) PNEC soil	r) ter)	15.4 mg/l 570.4 mg/kg dwt		

UG/ML IN METHANOL CLM-8356-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

Personal protective equipment

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



Ν	Aaterials for protective clothing	:	Wear suitable protective clothing and gloves.
F	land protection	:	Wear suitable protective clothing and gloves.
E	ye protection	:	Wear eye protection. Chemical goggles or face shield with safety glasses.
S	Skin and body protection	:	Wear suitable protective clothing, gloves and eye/face protection.
F	Respiratory protection	:	In case of inadequate ventilation wear respiratory protection. Approved supplied air respirator.
E	nvironmental exposure controls	:	Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

The properties listed below are for the solvent, the main compo	onent of this mixture.
Physical state	: Liquid
Appearance	: Liquid
Molecular mass	: 32.04 g/mol
Color	: Colorless
Odor	: Pungent
Odor threshold	: No data available
рН	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: -98 °C (-144 °F)
Freezing point	: No data available
Boiling point	: 64.7 °C (148.5 °F)
Flash point	: 9.7 °C (49.5 °F) - closed cup
Auto-ignition temperature	: 455 °C (851 °F) at 1,013 hPa (760 mmHg)
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: 130.3 hPa (97.7 mmHg) at 20 °C (68 °F); 169.27 hPa (126.96 mmHg) at 25 °C (77 °F)
Vapor pressure at 50 °C	: 546.6 hPa (410 mmHg) at 50 °C (122 °F)
Relative vapor density at 20 °C	: 1.11
Relative density	: No data available
Specific gravity / density	: 0.791 g/ml at 25 °C (77 °F)
Solubility	: Water: Completely miscible
Log Pow	: -0.77
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: Product is not explosive.
Oxidizing properties	: Non oxidizing material according to EC criteria.
Explosion limits	: 6 - 36 % (V)
9.2. Other information	

9.2. Other information
No additional information available

 SECTION 10: Stability and reactivity

 10.1.
 Reactivity

 Vapors may form flammable mixture with air. Highly flammable liquid and vapour.

 10.2.
 Chemical stability

 See storage and expiration date on CoA.

 10.3.
 Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

UG/ML IN METHANOL CLM-8356-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

10.4. Conditions to avoid

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

10.5. Incompatible materials

Acid anhydrides. Acid chlorides. Oxidizing agent. Alkali Metal Amides. Reducing agents. Acids.

10.6. Hazardous decomposition products

Carbon oxides (CO, CO2).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Oral: Toxic if swallowed. Dermal: Toxic in contact with skin. Inhalation: Toxic if inhaled.

4-(1,3-DIMETHYL-1-ETHYLPENTYL)PHENOL (RING-13C6, 99%) 100 UG/ML IN METHANOL		
LD50 oral rat	1187 - 2769 mg/kg	
LD50 dermal rabbit	17100 mg/kg	
LC50 inhalation rat (mg/l)	128.2 mg/l/4h ; 87.6 mg/l - 6 h	
ATE CLP (oral)	100.000 mg/kg body weight	
ATE CLP (dermal)	300.000 mg/kg body weight	
ATE CLP (vapors)	3.000 mg/l/4h	
ATE CLP (dust, mist)	128.200 mg/l/4h	
LDLO, oral, human	143 mg/kg Remarks: Lungs, Thorax, or Respiration: Dyspnea. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.	
4-(1.3-DIMETHYL-1-ETHYLPENTYL)PHENOL (RING-13C6, 99%) (186825-36-5 (Unlabeled))		

4-(1,3-DIMETHYL-1-ETHYLPENTYL)PHENOL (RING-13C6, 99%) (186825-36-5 (Unlabeled))			
ATE CLP (oral)	500.000 mg/kg body weight		
100% METHANOL UNLABELED (67-56-1)			
LD50 oral rat	1187 - 2769 mg/kg		
LD50 dermal rabbit	17100 mg/kg		
LC50 inhalation rat (mg/l)	128.2 mg/l/4h ; 87.6 mg/l - 6 h		
ATE CLP (oral)	100.000 mg/kg body weight		
ATE CLP (dermal)	300.000 mg/kg body weight		
ATE CLP (vapors)	3.000 mg/l/4h		
ATE CLP (dust, mist)	128.200 mg/l/4h		
LDLO, oral, human	143 mg/kg Remarks: Lungs, Thorax, or Respiration: Dyspnea. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.		
Skin corrosion/irritation	: Skin - Rabbit. Result: No skin irritation		
Serious eye damage/irritation	: Eyes - Rabbit. Result: No eye irritation		
Respiratory or skin sensitization	: Maximisation Test . Guinea pig. Did not cause sensitization. (OECD 406 method)		
Germ cell mutagenicity	: AMES test : S. tymphimurium. Result: negative. fibroblast. Result: Negative. Mutation in mammalian somatic cells. Mutagenicity (in vivo mammalian bone-marrow cystogenetic test, chromosomal analysis) - Mouse - male and female Result: negative. Mouse - male and female. Result: Negative		
Carcinogenicity	: Not classified		
Reproductive toxicity	: Damage to fetus not classifiable. Fertility classification not possible from current data.		
Specific target organ toxicity – single exposure	: Causes damage to organs through prolonged or repeated exposure		
	Causes damage to organs		
Specific target organ toxicity – repeated exposure	: The substance or mixture is not classified as specific target organ toxicant, repeated exposure. No data available		
Aspiration hazard	: No aspiration toxicity classification.		
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. Effects due to Ingestion may include: Headache. Dizziness. Drowsiness. metabolic acidosis. Coma. May be fatal if swallowed and enters airways. If swallowed there is a risk of blindness. Effects on humans. stomach.		
Symptoms/effects after inhalation	: Toxic if inhaled.		
Symptoms/effects after skin contact	: Toxic in contact with skin. Causes skin irritation.		
Symptoms/effects after eye contact	: Causes serious eye irritation.		
Symptoms/effects after ingestion	: Toxic if swallowed.		

UG/ML IN METHANOL CLM-8356-S

Safety Data Sheet

6, 2012 / Rules and Regulations	
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.
4-(1,3-DIMETHYL-1-ETHYLPENTYL)PHENOL	. (RING-13C6, 99%) 100 UG/ML IN METHANOL
LC50 fish 1	15400 mg/l mortality LC50 - Lepomis machrochirus (Bluegill) - 96 h
EC50 Daphnia 1	> 10000 mg/l Daphnia magna (Water flea) - 48 h
EC50 Daphnia 2	22000 mg/l Growth inhibition EC50 - Scenedesmus capricornutum (fresh water algae) - 96 h
NOEC (acute)	7900 mg/l Oryzias latipes - 200 h
100% METHANOL UNLABELED (67-56-1)	
LC50 fish 1	15400 mg/l mortality LC50 - Lepomis machrochirus (Bluegill) - 96 h
EC50 Daphnia 1	> 10000 mg/l Daphnia magna (Water flea) - 48 h
EC50 Daphnia 2	22000 mg/l Growth inhibition EC50 - Scenedesmus capricornutum (fresh water algae) - 96 h
NOEC (acute)	7900 mg/l Oryzias latipes - 200 h
12.2. Persistence and degradability	
	. (RING-13C6, 99%) 100 UG/ML IN METHANOL
Biochemical oxygen demand (BOD)	600 - 1200 mg/g
Chemical oxygen demand (COD)	1420 mg/g
ThOD	1500 mg/g
Biodegradation	72 % - rapidly biodegradable aerobic - Exposure time 5 d
4-(1.3-DIMETHYL-1-ETHYLPENTYL)PHENOL	(RING-13C6, 99%) (186825-36-5 (Unlabeled))
Persistence and degradability	May cause long-term adverse effects in the environment.
100% METHANOL UNLABELED (67-56-1)	
Biochemical oxygen demand (BOD)	600 - 1200 mg/g
Chemical oxygen demand (COD)	1420 mg/g
ThOD	1500 mg/g
Biodegradation	72 % - rapidly biodegradable aerobic - Exposure time 5 d
12.3. Bioaccumulative potential	
•	. (RING-13C6, 99%) 100 UG/ML IN METHANOL
BCF fish 1	5 mg/l Cyprinus carpio (Carp) - 72 d at 20 °C
Bioconcentration factor (BCF REACH)	1
Log Pow	-0.77
	0.11
100% METHANOL UNLABELED (67-56-1) BCF fish 1	5 mg/l Cyprinus carpio (Carp) - 72 d at 20 °C
Bioconcentration factor (BCF REACH)	1
Log Pow	-0.77
	0.11
12.4. Mobility in soil	
	. (RING-13C6, 99%) 100 UG/ML IN METHANOL
Ecology - soil	Not degradable in the soil.
100% METHANOL UNLABELED (67-56-1)	
Ecology - soil	Not degradable in the soil.
12.5. Results of PBT and vPvB assessme	nt
	. (RING-13C6, 99%) 100 UG/ML IN METHANOL
PBT: not relevant – no registration required	
100% METHANOL UNLABELED (67-56-1)	
PBT: not relevant – no registration required	
12.6. Other adverse effects	
Other adverse effects	: Avoid release to the environment.
Other information	: Stability in water: at 19 °C - (83 - 91%) - 72 h. Remarks: Hydrolyses on contact with water. Hydrolyses readily.

UG/ML IN METHANOL CLM-8356-S

Safety Data Sheet

SECTION 13: Disposal consideration	S
13.1. Waste treatment methods	
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.
SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / IATA / AD	DN
14.1. UN number	
UN-No.(DOT) DOT NA no.	: 1230
DOT NA No.	UN1230
14.2. UN proper shipping name	
Proper Shipping Name (DOT)	: Methanol
Class (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Hazard labels (DOT)	: 3 - Flammable liquid 6.1 - Poison
	PLAMABLE LIQUID POISON
DOT Symbols	 + - Fixes (cannot be altered) proper shipping name, hazard class, and packing group, I - Proper
	shipping name appropriate for international and domestic transportation
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
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	. 494
Emergency Response Guide (ERG) Number	: 131
Other information	: No supplementary information available.
Overland transport	
Hazard identification number (Kemler No.)	: 336
Orange plates	336 1230
Tunnel restriction code (ADR)	: D/E
Limited quantities (ADR)	11
Excepted quantities (ADR)	: E2
Transport by soa	
Transport by sea DOT Vessel Stowage Location	: B - (i) 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; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.
03/08/2018	EN (English US) 10/13

UG/ML IN METHANOL CLM-8356-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

to, 2012 / Itules and Regulations	
DOT Vessel Stowage Other	: 40 - Stow "clear of living quarters"
MFAG-No	: 131
Air transport	
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 1L
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	
14.6. Transport in bulk according to Annex	x II of MARPOL 73/78 and the IBC Code
Not applicable	
SECTION 15: Regulatory information	
15.1. US Federal regulations	
4-(1,3-DIMETHYL-1-ETHYLPENTYL)PHENOL	(RING-13C6, 99%) 100 UG/ML IN METHANOL
Listed on the United States TSCA (Toxic Substa	
CERCLA RQ	5000 lb
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.

SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard	
SARA Section 313 - Emission Reporting	Subject to reporting requirements of United States SARA Section 313	
4-(1,3-DIMETHYL-1-ETHYLPENTYL)PHENOL (RING-13C6, 99%) (186825-36-5 (Unlabeled))	
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	Immediate (acute) health hazard Delayed (chronic) health hazard	
SARA Section 313 - Emission Reporting	Not subject to reporing requirements of the United States SARA Section 313.	
100% METHANOL UNLABELED (67-56-1)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
CERCLA RQ	5000 lb	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.	
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard	
SARA Section 313 - Emission Reporting	Subject to reporting requirements of United States SARA Section 313	

15.2. International regulations

CANADA

4-(1,3-DIMETHYL-	1-ETHYLPENTYL)PHENOL (RING-13C6, 99%) 100 UG/ML IN METHANOL
Listed on the Canad	dian DSL (Domestic Substances List)
100% METHANOL	. UNLABELED (67-56-1)
Listed on the Canadian DSL (Domestic Substances List)	

15.2.1. National regulations

No additional information available

15.3. US State regulations

4-(1,3-DIMETHYL-1-ETHYLPENTYL)PHENOL (RING-13C6, 99%) 100 UG/ML IN METHANOL

U.S. - California - Proposition 65 - Carcinogens List No

UG/ML IN METHANOL CLM-8356-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

		-13C6, 99%) 100 UG/ML IN MET	HANOL	
U.S California - Proposition Toxicity	·	Yes		
U.S California - Proposition Toxicity - Female	n 65 - Reproductive	No		
U.S California - Proposition Toxicity - Male	n 65 - Reproductive	No		
State or local regulations		U.S Idaho - Non-Carcinoger U.S Massachusetts - Right ⊺ U.S Pennsylvania - RTK (Ri U.S New Jersey - Right to K	scharge Requirements - Report nic Toxic Air Pollutants - Accept To Know List ght to Know) List (now Hazardous Substance List f Releases Part 597 - List of Ha	table Ambient Concentrations
4-(1,3-DIMETHYL-1-ETHYL	PENTYL)PHENOL (RING-	-13C6, 99%) (186825-36-5 (Unla	beled))	
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	
100% METHANOL UNLABE	ELED (67-56-1)	·		
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	Yes	No	No	
4-(1,3-DIMETHYL-1-ETHYL	PENTYL)PHENOL (RING-	-13C6, 99%) (186825-36-5 (Unla	beled))	
State or local regulations	, , , , , , , , , , , , , , , , , , ,		"	
U.S New Jersey - Right to U.S Pennsylvania - RTK (F		ce List		
100% METHANOL UNLABELED (67-56-1)				
State or local regulations				
U.S Delaware - Pollutant D U.S Idaho - Non-Carcinoge U.S Massachusetts - Right U.S Pennsylvania - RTK (F U.S New Jersey - Right to U.S New York - Reporting	enic Toxic Air Pollutants - A To Know List Right to Know) List Know Hazardous Substanc	Acceptable Ambient Concentratio	ins	

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. 3 (Dermal)	Acute toxicity (dermal) Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhalation) Category 3
Acute Tox. 3 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
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 Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Flam. Liq. 2	Flammable liquids Category 2
Repr. 2	Reproductive toxicity Category 2
Skin Corr. 1	Skin corrosion/irritation Category 1
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 1	Specific target organ toxicity (single exposure) Category 1
H225	Highly flammable liquid and vapour

UG/ML IN METHANOL CLM-8356-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

H301	Toxic if swallowed
H302	Harmful if swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H331	Toxic if inhaled
H361	Suspected of damaging fertility or the unborn child
H370	Causes damage to organs
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
R11	Highly flammable
R22	Harmful if swallowed
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed
R35	Causes severe burns
R36/38	Irritating to eyes and skin
R39	Danger of very serious irreversible effects
R39/23/24/25	Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed
R41	Risk of serious damage to eyes
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R62	Possible risk of impaired fertility
R63	Possible risk of harm to the unborn child
С	Corrosive
F	Highly flammable
N	Dangerous for the environment
Т	Toxic
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.
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