

4-(1,4-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 Povicion data: 06/08/2018 Date of issue: 01/06/2015 Supersedes: 01/06/2015

CLM-8357-S

Version: 1.1

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1.1. Product ident	ifier	
Product form		: Mixtures
Product name		: 4-(1,4-DIMETHYL-1-ETHYLPENTYL)PHENOL (RING-13C6, 99%) 100 UG/ML IN METHANOL
Product code		: CLM-8357-S
1.2. Relevant iden	tified uses of the substa	ance or mixture and uses advised against
1.2.1. Relevant iden	tified uses	
Industrial/Professional u		: For professional use only
1.2.2. Uses advised	against	
No additional information	•	
1.3. Details of the	supplier of the safety da	ata sheet
Cambridge Isotope Labo 50 Frontage Road Andover, MA 01810 USA	oratories, Inc.	
USA: 1-800-322-1174 cilsales@isotope.com	Int: 1-978-749-8000 www.isotope.com	
Emergency te	elephone number	
Emergency numbers:		
Chemtrec: 1-800-424-9 International: 1-703-741		
SECTION 2: Hazar	ds identification	
2.1. Classification	of the substance or mix	xture
Classification accordin	ig 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	
	H319	
Eye Irrit. 2	1010	
•	H370	
STOT SE 1		e section 16
STOT SE 1 Full text of hazard classe	H370 es and H-statements : see	e section 16 C [DSD] or 1999/45/EC [DPD]
Classification accordir F; R11 T; R23/24/25	H370 es and H-statements : see	
STOT SE 1 Full text of hazard classe Classification accordin F; R11	H370 es and H-statements : see ag to Directive 67/548/EE	
STOT SE 1 Full text of hazard classe Classification accordin F; R11 T; R23/24/25 Xi; R36/38 Full text of R-phrases: se	H370 es and H-statements : see ag to Directive 67/548/EE	
STOT SE 1 Full text of hazard classe Classification accordir F; R11 T; R23/24/25 Xi; R36/38	H370 es and H-statements : see ag to Directive 67/548/EE	

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. 2A	H319
STOT SE 1	H370

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

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2.2. Label elements	
Labeling according to Regulation (EC) N	lo. 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 (brain, heart, kidneys, liver, eyes) (in contact with skin, if
	swallowed, if inhaled)
Precautionary statements (CLP)	: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	smoking.
	P233 - Keep container tightly closed.
	P240 - Ground/bond container and receiving equipment. P241 - Use explosion-proof electrical, lighting, ventilating equipment
	P260 - Do not breathe dust, fume, gas, mist, spray, vapors.
	P264 - Wash Both 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. P307+P311 - IF exposed: Call a POISON CENTER or doctor/physician.
GHS-US labeling	
Hazard pictograms (GHS-US)	
Hazara plotograms (Cric CC)	
	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 (brain, eyes, heart, liver, kidneys) (Dermal, Inhalation, oral)
Precautionary statements (GHS-US)	: P210 - Keep away from open flames, heat, hot surfaces, sparks No smoking.
	P233 - Keep container tightly closed.
	P240 - Ground/Bond container and receiving equipment P241 - Use explosion-proof electrical, lighting, ventilating equipment
	P242 - Use only non-sparking tools.
	P243 - Take precautionary measures against static discharge.
	P260 - Do not breathe dust, fume, gas, mist, spray, vapors. P261 - Avoid breathing dust, fume, gas, spray, mist, vapors.
	P264 - Wash Both 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 eye protection, face protection, protective clothing, protective gloves. P301+P310 - If swallowed: Immediately call a poison center or doctor
	P302+P350 - If swallowed. Infinediately call a poison center of doctor P302+P352 - If on skin: Wash with plenty of water
	P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse
	skin with water/shower
	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
	P311 - Call a poison center or doctor
	P312 - Call a poison center or doctor if you feel unwell
	P321 - 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 - Take off immediately all contaminated clothing.

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P362 - Take off contaminated clothing and wash before reuse.

P363 - Wash contaminated clothing before reuse.

P370+P378 - In case of fire: Use Alcohol resistant foam, Carbon dioxide, Dry chemical, Water spray 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 Comply with applicable regulations

2.3. **Other hazards**

PBT: not relevant - no registration required

SECTION 3: Composition/Information on ingredients

3.1. **Substances**

Not applicable

3.2. Mixtures			
Name	Product identifier	%	Classification according to 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-(1,4-DIMETHYL-1-ETHYLPENTYL)PHENOL (RING-13C6, 99%)	(CAS-No.) 142731-63-3 (Unlabeled)	0.0126	Xn; R22 C; R35 C; R34 Xi; R36/37/38 N; R50/53
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-(1,4-DIMETHYL-1-ETHYLPENTYL)PHENOL (RING-13C6, 99%)	(CAS-No.) 142731-63-3 (Unlabeled)	0.0126	Acute Tox. 4 (Oral), H302 Skin Corr. 1A, 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

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 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, if 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 mouth. Call a physician immediately.
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4.2. Most important symptoms and e	
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.
4.3. Indication of any immediate med	ical attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	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	025Ur05
	equipment and emergency procedures
	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	o not allow to enter drains or water courses. Avoid release to the environment.
6.3. Methods and material for contain	ment 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	
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. Use only non-sparking tools. Avoid breathing dust, mist or spray.
Hygiene measures	 Do not eat, drink or smoke when using this product. Wash Both hands thoroughly after handling.
7.2. Conditions for safe storage, inclu	uding any incompatibilities
Technical measures	: Ground/bond container and receiving equipment. Store in a well-ventilated place. Keep container tightly closed. Store locked up.
Storage conditions	: Store at room temperature away from light and moisture.
7.3. Specific end use(s)	

No additional information available

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ECTION 8: Exposure c	ontrols/personal protection	
.1. Control parameters		
4-(1,4-DIMETHYL-1-ETHYLP	ENTYL)PHENOL (RING-13C6, 99%) 100 UG	/ML IN METHANOL
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.
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.

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100% METHANOL UNLABELED (67-56-1)		
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/m ³)	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.

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

DNEL/DMEL (Workers)	
Acute - systemic effects, dermal	40 mg/kg bodyweight/day
Acute - systemic effects, inhalation	260 mg/m ³
Acute - local effects, dermal	260 mg/cm ²
Long-term - systemic effects, 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 population)	
Acute - systemic effects, dermal	8 mg/kg body weight
Acute - systemic effects, inhalation	50 mg/m³
Acute - systemic effects, oral	8 mg/kg body weight
Acute - local effects, inhalation	50 mg/m³
Long-term - systemic effects, oral	8 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	50 mg/m³
Long-term - systemic effects, dermal	8 mg/kg bodyweight/day
Long-term - local effects, inhalation	50 mg/m ³
PNEC (Water)	
PNEC aqua (freshwater)	154 mg/l
PNEC aqua (marine water)	15.4 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	570.4 mg/kg dwt
PNEC (Soil)	
PNEC soil	23.5 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	100 mg/kg
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.
 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.

Personal protective equipment

|--|--|

: 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 chemical properties

9.1. Information on basic physical and	I chemical properties
The properties listed below are for the solvent, the main component 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

No additional information available

SECTI	ON 10: Stability and reactivity		
10.1.	Reactivity		
Vapors n	may form flammable mixture with air. Highly	flammable liquid and vapour.	
10.2.	Chemical stability		
See stora	age and expiration date on CoA.		
10.3.	Possibility of hazardous reactions		
No dang	erous reactions known under normal condi	tions of use.	
10.4.	Conditions to avoid		
Avoid co	ontact with hot surfaces. Heat. No flames, n	o sparks. Eliminate all sources of ignition.	
10.5.	Incompatible materials		
Acid anh	nydrides. Acid chlorides. Oxidizing agent. A	kali Metal Amides. Reducing agents. Acids.	
10.6.	Hazardous decomposition products		
Carbon o	oxides (CO, CO2).		
SECTI	ON 11: Toxicological information	n	
11.1.	Information on toxicological effects		
Acute to	xicity :	Oral: Toxic if swallowed. Dermal: Toxic in contact with skin. Inhalation: Toxic if inhaled.	

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4-(1,4-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-(1,4-DIMETHYL-1-ETHYLPENTYL)PHENOL	(RING-13C6, 99%) (142731-63-3 (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)			
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	: The substance or mixture is not classified as specific target organ toxicant, repeated exposure		
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.		
ymptoms/effects after eye contact : Causes serious eye irritation.			
Symptoms/effects after ingestion	: Toxic if swallowed.		

SECTION 12: Ecological information				
12.1. Toxicity				
Ecology - general	The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.			
4-(1,4-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			

7900 mg/l Oryzias latipes - 200 h

22000 mg/l Growth inhibition EC50 - Scenedesmus capricornutum (fresh water algae) - 96 h

EC50 Daphnia 2

NOEC (acute)

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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			
4-(1,4-DIMETHYL-1-ETHYLPENTYL)PHENOL	(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-(1,4-DIMETHYL-1-ETHYLPENTYL)PHENOL (RING-13C6, 99%) (142731-63-3 (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			
4-(1,4-DIMETHYL-1-ETHYLPENTYL)PHENOL	(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		
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		
12.4. Mobility in soil			
4-(1,4-DIMETHYL-1-ETHYLPENTYL)PHENOL	(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 assessmen	t		
4-(1,4-DIMETHYL-1-ETHYLPENTYL)PHENOL	(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.		
	: Stability in water: at 19 °C - (83 - 91%) - 72 h. Remarks: Hydrolyses on contact with water.		
	Hydrolyses readily.		
SECTION 13: Disposal considerations			
13.1. Waste treatment methods			
	: Dispose in a safe manner in accordance with local/national regulations.		
	: Handle empty containers with care because residual vapors are flammable.		
	 Harade empty containers with care because residual vapors are naminable. Hazardous waste due to toxicity. 		
Looogy - waste materials	. 1 10201 UUS WASIE UUE IU IUXIUILY.		

SECTION	N 14: Transport Information			
In accordar	n accordance with ADR / RID / IMDG / IATA / ADN			
14.1. U	JN number			
UN-No.(DC	DT) : 1230			
DOT NA no	D. UN1230			

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: Methanol
: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
: 3 - Flammable liquid
6.1 - Poison
FLAMMABLE LIQUID POISON
3
: + - Fixes (cannot be altered) proper shipping name, hazard class, and packing group, I - Proper
shipping name appropriate for international and domestic transportation
: II - Medium Danger
: 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)
TP2 - a. The maximum degree of filling must not exceed the degree of filling determined by the following: (image) Where: tr is the maximum mean bulk temperature during transport, tf is the
temperature in degrees celsius of the liquid during filling, and a is the mean coefficient of
cubical expansion of the liquid between the mean temperature of the liquid during filling (tf) and
the maximum mean bulk temperature during transportation (tr) both in degrees celsius. b. For liquids transported under ambient conditions may be calculated using the formula: (image)
Where: d15 and d50 are the densities (in units of mass per unit volume) of the liquid at 15 C
(59 F) and 50 C (122 F), respectively.
: 150
: 202
: 242
: 131
: No supplementary information available.
: 11
: 3 - Flammable liquid
: 336
: FT1
: 3 - Flammable liquids
6.1 - Toxic substances
3 6
336
336
1230
1230 : D/E
1230 : D/E 11
1230 : D/E 11 : •2WE
1230 : D/E 11

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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" or passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.	
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 II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

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

15.2.1. National regulations

No additional information available

15.3. US State regulations

4-(1,4-DIMETHYL-1-ETHYLPENTYL)PHENOL (RING-	13C6, 99%) 100 UG/ML IN METHANOL
U.S California - Proposition 65 - Carcinogens List	No
U.S California - Proposition 65 - Developmental Toxicity	Yes
U.S California - Proposition 65 - Reproductive Toxicity - Female	No
U.S California - Proposition 65 - Reproductive Toxicity - Male	No

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4-(1,4-DIMETHYL-1-ETHYLPENTYL)PHENOL (RING-13C6, 99%) 100 UG/ML IN METHANOL				
State or local regulations		U.S Delaware - Pollutant Discharge Requirements - Reportable Quantities U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations U.S Massachusetts - Right To Know List U.S Pennsylvania - RTK (Right to Know) List U.S New Jersey - Right to Know Hazardous Substance List U.S New York - Reporting of Releases Part 597 - List of Hazardous Substances		
100% METHANOL UNLA	BELED (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	
100% METHANOL UNLABELED (67-56-1)				
State or local regulations				

U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities

U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations

U.S. - Massachusetts - Right To Know List

U.S. - Pennsylvania - RTK (Right to Know) List

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances

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:

II LEXI 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. 1A	Skin corrosion/irritation Category 1A	
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	
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	
R34	Causes burns	
R35	Causes severe burns	
R36/37/38	Irritating to eyes, respiratory system and skin	
09/2019	EN (Epolish US)	7/12

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R36/38	Irritating to eyes and skin
R39/23/24/25	Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
С	Corrosive
F	Highly flammable
Ν	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