

## 5-ISOPROPYL-2-METHYLPHENOL (ISOPROPYL-13C3, 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: 04/12/2017 Revision date: 17/07/2018 Supersedes: 04/12/2017 Version: 1.1 CLM-10448-S

	substance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	
Product name	: 5-ISOPROPYL-2-METHYLPHENOL (ISOPROPYL-13C3, 99%) 100 UG/ML IN METHANOL
Product code	: CLM-10448-S
1.2. Relevant identified uses of the	substance or mixture and uses advised against
1.2.1. Relevant identified uses	
Main use category	: Professional use
Industrial/Professional use spec	: For professional use only
1.2.2. Uses advised against	
No additional information available	
1.3. Details of the supplier of the sa	ifety data sheet
Cambridge Isotope Laboratories, Inc.	
50 Frontage Road	
Andover, MA 01810 USA	
USA: 1-800-322-1174 Int: 1-978-749-800	
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)	
<b>SECTION 2: Hazards identification</b>	on
2.1. Classification of the substance	
Classification according to Regulation (I	EC) No. 1272/2008 [CLP]
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	
Full text of hazard classes and H-statement	ts : see section 16
Classification according to Directive 67/	548/EEC [DSD] or 1999/45/EC [DPD]
F; R11	
T; R39/23/24/25	
Xi; R36/38	
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:vapour)	H331
Skin Irrit. 2	H315
Eye Irrit. 2	H319
STOT SE 1	H370

Full text of H statements : see section 16

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#### Adverse physicochemical, human health and environmental effects

Eyes, Kidney, Liver, Heart, Central nervous system. Highly flammable liquid and vapour. Causes damage to organs (eyes, kidneys, liver, heart, central nervous system) (if inhaled, if swallowed, in contact with skin). Toxic in contact with skin. Toxic if inhaled. Toxic if swallowed. Causes skin irritation. Causes serious eye irritation.

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)	<ul> <li>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, heart, kidneys, liver, central nervous system) (in contact with skin, if inhaled, if swallowed)</li> </ul>
Precautionary statements (CLP)	<ul> <li>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P233 - Keep container tightly closed.</li> <li>P240 - Ground/bond container and receiving equipment.</li> <li>P241 - Use explosion-proof electrical, lighting, ventilating equipment</li> <li>P260 - Do not breathe dust, mist, vapors, fume, gas, spray.</li> <li>P264 - Wash hands, forearms and face thoroughly after handling.</li> <li>P270 - Do not eat, drink or smoke when using this product.</li> <li>P271 - Use only outdoors or in a well-ventilated area.</li> </ul>
GHS-US labeling	
Hazard pictograms (GHS-US)	GHS02 GHS08 GHS06
Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	<ul> <li>H225 - Highly flammable liquid and vapour</li> <li>H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled</li> <li>H315 - Causes skin irritation</li> <li>H319 - Causes serious eye irritation</li> <li>H370 - Causes damage to organs (eyes, kidneys, liver, heart, central nervous system) (Dermal, Inhalation, oral)</li> </ul>
Precautionary statements (GHS-US)	<ul> <li>P210 - Keep away from heat, open flames, sparks No smoking.</li> <li>P233 - Keep container tightly closed.</li> <li>P240 - Ground/Bond container and receiving equipment</li> <li>P241 - Use explosion-proof electrical, lighting, ventilating equipment</li> <li>P242 - Use only non-sparking tools.</li> <li>P243 - Take precautionary measures against static discharge.</li> <li>P260 - Do not breathe dust, fume, mist, gas, spray, vapors.</li> <li>P261 - Avoid breathing dust, fume, gas, spray, vapors, mist.</li> <li>P264 - Wash hands, forearms and face thoroughly after handling.</li> <li>P270 - Do not eat, drink or smoke when using this product.</li> <li>P271 - Use only outdoors or in a well-ventilated area.</li> <li>P280 - Wear protective clothing, protective gloves.</li> <li>P301+P310 - If swallowed: Immediately call a doctor, a POISON CENTER</li> <li>P303+P352 - If on skin: Wash with plenty of water</li> <li>P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower</li> </ul>
	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 contac lenses, if present and easy to do. Continue rinsing P307+P311 - If exposed: Call a poison center/doctor
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- P311 Call a doctor, a POISON CENTER
- P312 Call a doctor, a POISON CENTER if you feel unwell
- 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 Alcohol resistant foam, D-powder, carbon dioxide (CO2) 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

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

Substances 3.1.

#### Not applicable

32 **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
5-ISOPROPYL-2-METHYLPHENOL (ISOPROPYL-13C3, 99%)	(CAS-No.) 499-75-2 (Unlabeled) (EC-No.) 207-889-6 (Unlabeled)	0.013	Xn; R22 Xi; R41 Xi; R38
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
5-ISOPROPYL-2-METHYLPHENOL (ISOPROPYL-13C3, 99%)	(CAS-No.) 499-75-2 (Unlabeled) (EC-No.) 207-889-6 (Unlabeled)	0.013	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318
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
5-ISOPROPYL-2-METHYLPHENOL (ISOPROPYL-13C3, 99%)	(CAS-No.) 499-75-2 (Unlabeled)	0.013	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318

#### 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.
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First-aid measures after skin contact	
	<ul> <li>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.</li> </ul>
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.
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.
4.3. Indication of any immediate med	lical attention and special treatment needed
Treat symptomatically.	
<b>SECTION 5: Firefighting measures</b>	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.
<b>SECTION 6: Accidental release me</b>	easures
6.1. Personal precautions, protective	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	
6.1.2. For emergency responders Protective equipment	<ul> <li>Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".</li> </ul>
	: Do not attempt to take action without suitable protective equipment. For further information
Protective equipment         6.2.       Environmental precautions	: Do not attempt to take action without suitable protective equipment. For further information
Protective equipment         6.2.       Environmental precautions	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Protective equipment         6.2.       Environmental precautions         Prevent entry to sewers and public waters. Detection	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Protective equipment         6.2.       Environmental precautions         Prevent entry to sewers and public waters. Do         6.3.       Methods and material for contain	<ul> <li>Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".</li> <li>o not allow to enter drains or water courses. Avoid release to the environment.</li> <li>ment and cleaning up</li> <li>Dike and contain spill.</li> <li>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</li> </ul>
Protective equipment         6.2.       Environmental precautions         Prevent entry to sewers and public waters. De         6.3.       Methods and material for contain         For containment	<ul> <li>Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".</li> <li>o not allow to enter drains or water courses. Avoid release to the environment.</li> <li>ment and cleaning up <ul> <li>Dike and contain spill.</li> <li>Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public</li> </ul> </li> </ul>
Protective equipment         6.2.       Environmental precautions         Prevent entry to sewers and public waters. Do         6.3.       Methods and material for contain         For containment         Methods for cleaning up	<ul> <li>Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".</li> <li>o not allow to enter drains or water courses. Avoid release to the environment.</li> <li><b>nment and cleaning up</b> <ol> <li>Dike and contain spill.</li> <li>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.</li> </ol> </li> </ul>
Protective equipment         6.2.       Environmental precautions         Prevent entry to sewers and public waters. Do         6.3.       Methods and material for contain         For containment         Methods for cleaning up         Other information	<ul> <li>Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".</li> <li>o not allow to enter drains or water courses. Avoid release to the environment.</li> <li><b>nment and cleaning up</b> <ol> <li>Dike and contain spill.</li> <li>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.</li> </ol> </li> </ul>
Protective equipment         6.2.       Environmental precautions         Prevent entry to sewers and public waters. Do         6.3.       Methods and material for contain         For containment         Methods for cleaning up         Other information         6.4.       Reference to other sections	<ul> <li>Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".</li> <li>o not allow to enter drains or water courses. Avoid release to the environment.</li> <li>ment and cleaning up</li> <li>Dike and contain spill.</li> <li>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.</li> <li>Dispose of materials or solid residues at an authorized site.</li> </ul>
Protective equipment  6.2. Environmental precautions Prevent entry to sewers and public waters. De  6.3. Methods and material for contain For containment Methods for cleaning up  Other information  6.4. Reference to other sections For further information refer to section 13.	<ul> <li>Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".</li> <li>o not allow to enter drains or water courses. Avoid release to the environment.</li> <li>ment and cleaning up</li> <li>Dike and contain spill.</li> <li>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.</li> <li>Dispose of materials or solid residues at an authorized site.</li> </ul>

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#### No additional information available

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

8.1. Control parameters			
5-ISOPROPYL-2-METHYLPH	ENOL (ISOPROPYL-13C3, 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 <sup>3</sup> )	260 mg/m <sup>3</sup> 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 <sup>3</sup> )	325 mg/m <sup>3</sup> 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 <sup>3</sup> 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 <sup>3</sup> 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 <sup>3</sup> )	260 mg/m <sup>3</sup> Basis: NIOSH Recommended Exposure Limits	

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	ED (67-56-1)		
USA NIOSH	NIOSH REL (TWA) (ppm)		200 ppm Basis: NIOSH Recommended Exposure Limits
USA NIOSH	NIOSH REL (STEL) (mg/m <sup>3</sup> )		325 mg/m <sup>3</sup> 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 <sup>3</sup> 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)
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USA OSHA	OSHA PEL (STEL) (ppm)		250 ppm Basis: USA. OSHA - Table Z-1 Limits for Ai Contaminants - 1910.1000. California permissible exposure limits for chemical contaminants (Title 8, Article 107)
USA OSHA	OSHA PEL (Ce	iling) (ppm)	1000 ppm California permissible exposure limits for chemical contaminants (Title 8, Article 107)
USA OSHA	Remark (OSHA	A)	The value in mg/m3 is approximate. Skin notation.
5-ISOPROPYL-2-METHYLPH	ENOL (ISOPRO	PYL-13C3, 99%) 100 UG/ML IN METH	IANOL
DNEL/DMEL (Workers)	•		
Acute - systemic effects, derma	al	40 mg/kg bodyweight/day	
Acute - systemic effects, inhala	ation	260 mg/m <sup>3</sup>	
Acute - local effects, dermal		260 mg/cm <sup>2</sup>	
Long-term - systemic effects, d	lermal	40 mg/kg bodyweight/day	
Long-term - local effects, derm	al	260 mg/cm <sup>2</sup>	
Long-term - local effects, inhala	ation	260 mg/m <sup>3</sup>	
DNEL/DMEL (General populati	ion)		
Acute - systemic effects, derma	al	8 mg/kg body weight	
Acute - systemic effects, inhala	ation	50 mg/m <sup>3</sup>	
Acute - systemic effects, oral		8 mg/kg body weight	
Acute - local effects, inhalation		50 mg/m <sup>3</sup>	
Long-term - systemic effects,or	ral	8 mg/kg bodyweight/day	
Long-term - systemic effects, ir	nhalation	50 mg/m <sup>3</sup>	
Long-term - systemic effects, dermal		8 mg/kg bodyweight/day	
Long-term - local effects, inhalation		50 mg/m <sup>3</sup>	
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)			
		100 ma/ka	
PNEC sewage treatment plant		100 mg/kg	

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Personal protective equipment

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



Materials for protective clothing	: Wear suitable protective clothing and gloves.
Hand protection	: Wear suitable protective clothing and gloves.
Eye protection	: Wear eye protection. Chemical goggles or face shield with safety glasses.
Skin and body protection	: Wear suitable protective clothing, gloves and eye/face protection.
Respiratory protection	: In case of inadequate ventilation wear respiratory protection. Approved supplied air respirator.
Environmental 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 component of this mixture.

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.

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#### 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:vapour: Toxic if inhaled.

5-ISOPROPYL-2-METHYLPHENOL (ISOPROPYL-13C3, 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)	17.100 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.		
5-ISOPROPYL-2-METHYLPHENOL (ISOPROP	YL-13C3, 99%) (499-75-2 (Unlabeled))		
LD50 oral rat	810 mg/kg Remarks: Behavioral:Somnolence (general depressed activity). Behavioral:Convulsions or effect on seizure threshold.		
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	: 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.		
Symptoms/effects after eye contact	: Causes serious eye irritation.		

UG/ML IN METHANOL CLM-10448-S

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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

Symptoms/effects after ingestion

: Toxic if swallowed.

ECTION 12: Ecological information	n
2.1. Toxicity	
cology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
5-ISOPROPYL-2-METHYLPHENOL (ISOPR	OPYL-13C3, 99%) 100 UG/ML IN METHANOL
_C50 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)	
-C50 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
2.2. Persistence and degradability	
-ISOPROPYL-2-METHYLPHENOL (ISOPR	OPYL-13C3, 99%) 100 UG/ML IN METHANOL
Biochemical oxygen demand (BOD)	600 - 1200 mg/g
Chemical oxygen demand (COD)	1420 mg/g
ГhOD	1500 mg/g
Biodegradation	72 % - rapidly biodegradable aerobic - Exposure time 5 d
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
.3. Bioaccumulative potential	
	OPYL-13C3, 99%) 100 UG/ML IN METHANOL
3CF fish 1	5 mg/l Cyprinus carpio (Carp) - 72 d at 20 °C
Bioconcentration factor (BCF REACH)	
Log Pow	-0.77
00% METHANOL UNLABELED (67-56-1)	
BCF fish 1	E mall Ourrinus cornis (Corn) 72 d et 20 °C
Bioconcentration factor (BCF REACH)	5 mg/l Cyprinus carpio (Carp) - 72 d at 20 °C
Log Pow	-0.77
-	-0.77
2.4. Mobility in soil	
•	OPYL-13C3, 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.
.5. Results of PBT and vPvB assessm	nent
-ISOPROPYL-2-METHYLPHENOL (ISOPR	OPYL-13C3, 99%) 100 UG/ML IN METHANOL
PBT: not relevant – no registration required	
-ISOPROPYL-2-METHYLPHENOL (ISOPR	OPYL-13C3, 99%) (499-75-2 (Unlabeled))
PBT: not relevant – no registration required	
<b>100% METHANOL UNLABELED (67-56-1)</b> PBT: not relevant – no registration required	
v ,	
2.6. Other adverse effects	
ther adverse effects	: Avoid release to the environment.
ther information	: Stability in water: at 19 °C - (83 - 91%) - 72 h. Remarks: Hydrolyses on contact with water. Hydrolyses readily.

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SECTION 13: Disposal consideration	15
13.1. Waste treatment methods	
Regional legislation (waste)	: Waste materials should be disposed of under conditions which meet Federal, State, and local environmental control regulations.
Product/Packaging disposal recommendations	: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.
Ecology - waste materials	: Dispose of as unused product.
<b>SECTION 14: Transport information</b>	
In accordance with ADR / RID / IMDG / IATA / A	DN
14.1. UN number	
UN-No.(DOT)	: 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
	FLAMMABLE LIQUID 3 6
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
DOT RQ	: 5000 lbs
Marine pollutant	: No
44.0 Additional to famoustic a	
14.3. Additional information	. 404

Emergency Response Guide (ERG) Number	: 131
Other information	: No supplementary information available.
Overland transport	
Packing group (ADR)	: 11
Class (ADR)	: 3 - Flammable liquid
Hazard identification number (Kemler No.)	: 336
Classification code (ADR)	: FT1

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Hazard labels (ADR)	: 3 - Flammable liquids 6.1 - Toxic substances
Orange plates	<b>336</b> <b>1230</b>
Tunnel restriction code (ADR)	: D/E
Limited quantities (ADR)	11
Excepted quantities (ADR)	: E2
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.
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
14.0.	I TAISDOIL III DUIK ACCOLUIIU LO AIITEX II OL MARFOL 19/10 AIIU LIE IDO COUE

Not applicable

SECTION 15: Regulatory information	
15.1. US Federal regulations	
5-ISOPROPYL-2-METHYLPHENOL (ISOPROPYL-13C3, 99%) 100 UG/ML IN METHANOL	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313	
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
5-ISOPROPYL-2-METHYLPHENOL (ISOPROPYL-13C3, 99%) (499-75-2 (Unlabeled))	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
SARA Section 313 - Emission Reporting	Not subject to reporting 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.

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100% METHANOL UNLABELED (67-56-1)	
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

5-ISOPROPYL-2-METHYLPHENOL (ISOPROPYL-13C3, 99%) 100 UG/ML IN METHANOL	
Listed on the Canadian 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 5-ISOPROPYL-2-METHYLPHENOL (ISOPROPYL-13C3, 99%) 100 UG/ML IN METHANOL U.S. - California - Proposition 65 - Carcinogens List No U.S. - California - Proposition 65 - Developmental Yes 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. - 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 5-ISOPROPYL-2-METHYLPHENOL (ISOPROPYL-13C3, 99%) (499-75-2 (Unlabeled)) 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) Developmental Toxicity Reproductive Toxicity -Carcinogens List Reproductive Toxicity -Female Male No No No No 100% METHANOL UNLABELED (67-56-1) U.S. - California -U.S. - California -U.S. - California No significant risk level U.S. - California -Proposition 65 -Proposition 65 -Proposition 65 -(NSRL) Proposition 65 · Carcinogens List **Developmental Toxicity** Reproductive Toxicity -Reproductive Toxicity -Female Male No Yes No No 5-ISOPROPYL-2-METHYLPHENOL (ISOPROPYL-13C3, 99%) (499-75-2 (Unlabeled)) State or local regulations U.S. - Pennsylvania - RTK (Right to Know) List U.S. - New Jersey - Right to Know Hazardous Substance List 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

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## **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:

text of IV, IT and Lot philases.	
Acute Tox. 3 (Dermal)	Acute toxicity (dermal) 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
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
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
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H331	Toxic if inhaled
H370	Causes damage to organs
R11	Highly flammable
R22	Harmful if swallowed
R36/38	Irritating to eyes and skin
R38	Irritating to skin
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
F	Highly flammable
Т	Toxic
Xi	Irritant
Xn	Harmful

	<ul> <li>2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.</li> <li>3 - Liquids and solids (including finely divided suspended solids) that can be ignited under almost all ambient temperature can divise.</li> </ul>
NFPA reactivity	temperature conditions. : 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