

MENTHOL UNLABELED 1 MG/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: 04/11/2019 Revision date: Version: 1.0

ULM-11045-S

	of the substance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Mixtures
Product name	: MENTHOL UNLABELED 1 MG/ML IN METHANOL
Product code	: ULM-11045-S
1.2. Relevant identified use	s of the substance or mixture and uses advised against
1.2.1. Relevant identified use	5
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	of the safety data sheet
Cambridge Isotope Laboratories, Ir 50 Frontage Road Andover, MA 01810 USA USA: 1-800-322-1174 Int: 1-978	ic.
cilsales@isotope.com www.isoto	
Emergency telephone r	number
Emergency numbers:	
Chemtrec: 1-800-424-9300 (24 ho International: 1-703-741-5970 (24	
SECTION 2: Hazards ident	ification
2.1. Classification of the su	bstance or mixture
Classification according to Regu	lation (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	
Full text of hazard classes and H-s	tatements : see section 16
Classification according to Direct	tive 67/548/EEC [DSD] or 1999/45/EC [DPD]
F; R11 T; R24/25 Xi; R36/38 Xi; R39 T; R23	
1,1120	

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

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Adverse physicochemical, human health and environmental effects

No additional information available

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 vapor 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 	
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/ventilating/lighting equipment P260 - Do not breathe dust/fume/gas/mist/vapors/spray. P264 - Wash hands, forearms and face 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)		
	GHS02 GHS08 GHS06	
Signal word (GHS-US) Hazard statements (GHS-US)	 Danger H225 - Highly flammable liquid and vapor 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 	
Precautionary statements (GHS-US)	 P1010 Coulded analysis to organs P210 - Keep away from heat/sparks/open flames/hot surfaces No smoking. P233 - Keep container tightly closed. P240 - Ground/Bond container and receiving equipment P241 - Use explosion-proof electrical/ventilating/lighting equipment P242 - Use only non-sparking tools. P243 - Take precautionary measures against static discharge. P260 - Do not breathe dust/fume/gas/mist/vapors/spray. P261 - Avoid breathing dust/fume/gas/mist/vapors/spray. P264 - Wash hands, forearms and face 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/eye protection/face protection. P301+P310 - If swallowed: Immediately call a poison center or 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 poison center or doctor P312 - Call a poison center or doctor if you feel unwell P321 - Specific treatment (see supplemental first aid instruction on this label) P322 - Specific treatment (see supplemental first aid instruction on this label) P332+P313 - If skin irritation occurs: Get medical advice/attention. 	

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		 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 media other than water 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		
No add	ditional information available		
SEC	SECTION 3: Composition/Information on ingredients		

3.1. **Substances** Not applicable

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	99.87	F; R11 T; R39/23/24/25 Xi; R36/38
MENTHOL UNLABELED	(CAS-No.) 2216-51-5 (EC-No.) 218-690-9	0.13	Xi; R37/38 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	99.87	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
MENTHOL UNLABELED	(CAS-No.) 2216-51-5 (EC-No.) 218-690-9	0.13	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335
Name	Product identifier	%	GHS-US classification
100% METHANOL UNLABELED	(CAS-No.) 67-56-1	99.87	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
MENTHOL UNLABELED	(CAS-No.) 2216-51-5	0.13	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335

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

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: If 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 effects, both acute and delayed			
Symptoms/effects : Causes damage to organs (Eyes, heart, liver, kidneys, central nervous system, Skin) (in contact with skin, if inhaled, if swallowed).			
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.		
	I attention and special treatment needed		
Treat symptomatically.			
SECTION 5: Firefighting measures			
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 su	bstance or mixture		
Fire hazard	: Highly flammable liquid and vapor.		
Reactivity	: Vapors may form flammable mixture with air. Highly flammable liquid and vapor.		
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 mea	sures		
	uipment 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. Do n	ot allow to enter drains or water courses. Avoid release to the environment.		
6.3. Methods and material for containme	ent 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			
Precautions for safe handling	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No		
Precautions for sale handling	States and other ignition sources, sparks, open names and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapors may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Do not breathe dust, fume, gas, spray, vapors, mist. Do not get in eyes, on skin, or on clothing. Use only outdoors or in a well-ventilated area.		
Hygiene measures	: Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.		
7.2. Conditions for safe storage, including 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.		

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Specific end use(s)

7.3.

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

No additional information available **SECTION 8: Exposure controls/personal protection** 8.1. **Control parameters** MENTHOL UNLABELED 1 MG/ML IN METHANOL Italy - Portugal - USA ACGIH ACGIH TWA (ppm) 200.0000000 ppm Basis: USA. ACGIH Threshold Limit Values (TLV) 250 ppm Basis: USA. ACGIH Threshold Limit Values Italy - Portugal - USA ACGIH ACGIH STEL (ppm) (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 260 mg/m³ Basis: NIOSH Recommended Exposure NIOSH REL (TWA) (mg/m3) L imits USA NIOSH NIOSH REL (TWA) (ppm) 200 ppm Basis: NIOSH Recommended Exposure I imits USA NIOSH NIOSH REL (STEL) (mg/m3) 325 mg/m³ 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 260 mg/m³ Basis: USA. Occupational Exposure Limits OSHA PEL (TWA) (mg/m3) (OSHA) - Table Z-1 Limits for Air Contaminants -1910.1000. California permissible exposure limits for chemical contaminants (Title 8, Article 107) 200 ppm Basis: USA. Occupational Exposure Limits USA OSHA OSHA PEL (TWA) (ppm) (OSHA) - Table Z-1 Limits for Air Contaminants -1910.1000. California permissible exposure limits for chemical contaminants (Title 8, Article 107) 325 mg/m³ Basis: USA. OSHA - Table Z-1 Limits for USA OSHA OSHA PEL (STEL) (mg/m3) 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 1000 ppm California permissible exposure limits for OSHA PEL (Ceiling) (ppm) chemical contaminants (Title 8, Article 107) USA OSHA Remark (OSHA) The value in mg/m3 is approximate. Skin notation. 100% METHANOL UNLABELED (67-56-1) 200.0000000 ppm Basis: USA. ACGIH Threshold Italy - Portugal - USA ACGIH ACGIH TWA (ppm) Limit Values (TLV) 250 ppm Basis: USA. ACGIH Threshold Limit Values Italy - Portugal - USA ACGIH ACGIH STEL (ppm) (TLV) Headache, Nausea, Dizziness, Eve damage, Italy - Portugal - USA ACGIH Remark (ACGIH) Substances for which there is a Biological Exposure Index or Indices (see BEI section). Danger of cutaneous absorption. 260 mg/m³ Basis: NIOSH Recommended Exposure USA NIOSH NIOSH REL (TWA) (mg/m3) I imits USA NIOSH NIOSH REL (TWA) (ppm) 200 ppm Basis: NIOSH Recommended Exposure Limits USA NIOSH NIOSH REL (STEL) (mg/m³) 325 mg/m³ Basis: NIOSH Recommended Exposure L imits USA NIOSH NIOSH REL (STEL) (ppm) 250 ppm Basis: NIOSH Recommended Exposure L imits **USA NIOSH** Remark (NIOSH) Potential for dermal absorption.

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100% METHANOL UNL				
USA OSHA	OSHA PEL (1	WA) (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 (1	WA) (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 (S	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 (S	TEL) (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 (C	Ceiling) (ppm)	1000 ppm California permissible exposure limits for chemical contaminants (Title 8, Article 107)	
USA OSHA	Remark (OSF	IA)	The value in mg/m3 is approximate. Skin notation.	
MENTHOL UNLABELE	D 1 MG/ML IN METH	ANOL		
DNEL/DMEL (Workers)				
Acute - systemic effects,	dermal	40 mg/kg bodyweight/day		
Acute - systemic effects,	inhalation	260 mg/m ³		
Acute - local effects, der	mal	260 mg/cm ²		
Long-term - systemic eff		40 mg/kg bodyweight/day		
Long-term - local effects		260 mg/cm ²	-	
Long-term - local effects		260 mg/m ³		
DNEL/DMEL (General p				
Acute - systemic effects,		8 mg/kg body weight 50 mg/m ³		
Acute - systemic effects, Acute - systemic effects,		8 mg/kg body weight		
Acute - systemic enects, Acute - local effects, inha		50 mg/m ³		
Long-term - systemic eff		8 mg/kg bodyweight/day		
Long-term - systemic eff		50 mg/m ³		
Long-term - systemic eff	,	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)	(also (100 mg/kg		
PNEC sewage treatmen				

Personal protective equipment

: 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.



Materials for protective clothing Hand protection Eye protection Skin and body protection Respiratory protection Wear suitable protective clothing and gloves.Wear suitable protective clothing and gloves.

- : Wear eye protection. Chemical goggles or face shield with safety glasses.
- : Wear suitable protective clothing, gloves and eye/face protection.
- : In case of inadequate ventilation wear respiratory protection. Approved supplied air respirator.

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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 compo		
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		
SECTION 10: Stability and reactivity		
10.1. Reactivity Vapors may form flammable mixture with air. Highly flammable liquid and vapor.		
10.2. Chemical stability		
Stable if stored under recommended conditions.		
10.3. Possibility of hazardous reactions		
No dangerous reactions known under normal conditions of use.		
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.		
MENTHOL UNLABELED 1 MG/ML IN METHANOL		
LD50 oral rat	1187 - 2769 mg/kg	
LDE0 dormal rabbit	17100 malka	

LD50 dermal rabbit

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LC20 inhalation rat (mgi) 128.2 mg/4h; 37.6 mg/t = 6 h. ATE CLP (oral) 100 000 mg/k pody weight ATE CLP (oral) 300 000 mg/k pody weight ATE CLP (oral) 300 000 mg/k pody weight ATE CLP (oral) 300 000 mg/k pody weight ATE CLP (pops) 3.000 mg/k/h ATE CLP (pops) 3.000 mg/k/h LDL0, oral, human 143 mg/kg Remarks: Lungs, Thorax, or Respiration: Dyspnea. Ingestion may cause gastrointestimal intration, nausea. vomiting and diarrhea. UD0% METHANOL UNLABELED (67-56-1) 1187 - 2769 mg/kg LD50 oral rat 1187 - 2769 mg/kg LD50 oral rat 1182 - 2 mg/4h; 17.6 mg/l - 6 h ATE CLP (oral) 100 000 mg/kg body weight ATE CLP (oral) 100 000 mg/kg body weight ATE CLP (oral) 3.000 mg/kg body weight ATE CLP (oral) 3.000 mg/kg body weight ATE CLP (oral) 3.000 mg/kg body weight ATE CLP (oral) 128 2.00 mg/k4 LD40 oral rat 2815 mg/kg LD50 dermit rabbit > 5000 mg/kg body weight ATE CLP (oral) 2815.000 mg/kg body weight Remarks Behavioral: Ceneral anesthetic. Behavioral: Altered sleep time (including change in righting release in the stast	MENTHOL UNLABELED 1 MG/ML IN METHANOL		
ATE CLP (demnal) 300.000 mg/kg body weight ATE CLP (gases) 700.000 ppmV/4h ATE CLP (gases) 3.000 mg/4a ATE CLP (gases) 3.000 mg/4a ATE CLP (aust, mist) 0.500 mg/4ah LDLQ, oral, human 143 mg/kg Remarks: Lungs, Thorax, or Respiration: Dyspnea. Ingestion may cause gastrointestinal irritation, nausee, vomiting and darrhee. 100% METHANOL UNLABELED (67-56-1) IDE0 oral rat LDS0 oral rat 1187 - 2769 mg/kg LDS0 oral rat 1187 - 2769 mg/kg LDS0 oral rat 1282 mg/4ah; 87.6 mg/l - 6 h ATE CLP (demnal) 300.000 mg/kg body weight ATE CLP (demnal) 300.000 mg/kg body weight ATE CLP (demnal) 30.000 mg/kg body weight ATE CLP (dust, mist) 128 200 mg/kdn LDS0 oral rat 2815 mg/kg LDS0 oral rat	LC50 inhalation rat (mg/l)		128.2 mg/l/4h ; 87.6 mg/l - 6 h
ATE CLP (gases) 700.000 ppmV/Ah ATE CLP (vapors) 3.000 mg/V4h ATE CLP (vapors) 0.500 mg/V4h LDLO, oral, human 143 mg/kg Remarks: Lungs, Thorax, or Respiration: Dyspnea. Ingestion may cause gastrointestinal intration, nausea, womiting and darrhea. 100% METHANOL UNLABELED (67-56-1) IDE0 oral ret LDS0 oral ret 1187 - 2789 mg/kg LDS0 inhalation rat (mg/l) 128.2 mg/V4h; 87.6 mg l - 6 h ATE CLP (oral) 100.000 mg/kg body weight ATE CLP (oral) 300.000 mg/kg body weight ATE CLP (oral) 2815 mg/kg LDS0 or rat 2815 mg/kg LDS0 oral rate 2815 mg/kg LDS0 oral rate 2815 mg/kg LDS0 orarate rate	ATE CLP (oral)		100.000 mg/kg body weight
ATE CLP (vapors) 3.000 mg/4/h ATE CLP (dust, mist) 0.500 mg/4/h LDLO, oral, human 143 mg/kg Remarks: Lungs, Thorax, or Respiration: Dyspnea. Ingestion may cause gastromestimal intration, nausea, vomiting and darrhea. 100% METHANOL UNLABELED (67-56-1) LD50 oral rat 1187 - 2769 mg/kg LD50 oral rat 1187 - 2769 mg/kg LD50 oral rat 1187 - 2769 mg/kg LC50 inhalation rat (mg/l) 128.2 mg/4h; 87.6 mg/l - 6 h ATE CLP (oral) 100.000 mg/kg body weight ATE CLP (demal) 30.000 mg/kg body weight ATE CLP (demal) 30.000 mg/kg body weight ATE CLP (demal) 30.000 mg/kg body weight LD50 oral rat 2815 mg/kg LD50 intraperitoneal - Restrict. Behavioral: Canceral anesthetic. Behavioral	ATE CLP (dermal)		300.000 mg/kg body weight
ATE CLP (dist, mist) 0.500 mg/k4h LDLO, oral, human 143 mg/kg Remarks: Lung: Thorax, or Respiration: Dyspnea. Ingestion may cause gastroinestinal irritation, nausea, vomiting and diarrhea. 100% METHANOL UNLABELED (67-64-1) 1187 - 2769 mg/kg LD50 oral rat 1187 - 2769 mg/kg LD50 dermal rabbit 17100 mg/kg LC50 inhalation rat (mg/l) 128.2 mg/k4h : 87 6 mg/l - 6 h ATE CLP (oral) 100.000 mg/kg body weight ATE CLP (oral) 300.000 mg/kg body weight ATE CLP (uspons) 3.000 mg/kg ATE CLP (uspons) 3.0000 mg/kg body weight ATE CLP (uspons) 143 mg/kg Remarks: Lung: Thorax, or Respiration: Dyspnea. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. MENTHOL UNLABELED (2216-51-5) 128.200 mg/k4h LD50 oral rat 2615 mg/kg LD50 dermal rabbit > 5000 mg/kg ATE CLP (oral) 2615 mg/kg LD50 dermar abbit > 5000 mg/kg body weight Remarks Behavioral: General anesthetic. Behavioral: Altered sleep time (including change in righting rifelay, Respiratory of societ. Refared sleep time (including change in righting rifelay, Respiratory disorder. Additional information LD50 intraperitoneal - Cat - 700 mg/kg LD50 Subctateneou	ATE CLP (gases)		700.000 ppmV/4h
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Symptoms/effects after skin contact: Toxic in contact with skin. Causes skin irritation.Symptoms/effects after eye contact: Causes serious eye irritation.			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.
Symptoms/effects after eye contact : Causes serious eye irritation.	Symptoms/effects after inhalation	:	Toxic if inhaled.
Symptoms/effects after eye contact : Causes serious eye irritation.	Symptoms/effects after skin contact	:	Toxic in contact with skin. Causes skin irritation.
		:	Causes serious eye irritation.
		:	-

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.
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
05/11/2019	EN (English US) 8/1

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

100% METHANOL UNLABELED (67-56-1)		
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	
MENTHOL UNLABELED (2216-51-5)		
LC50 fish 1	15.6 mg/l Brachydanio rerio (zebrafish) - 96 h	
EC50 Daphnia 1	26.6 mg/l Daphnia magna (Water flea) - 48 h (Tested according to Directive 92/69/EEC.)	
EC50 other aquatic organisms 1	237 mg/l activated sludge (OECD Test Guideline 209)	
ErC50 (algae)	21.4 mg/l Desmodesmus subspicatus (Green algae) - 72 h (Tested according to Directive 92/69/EEC.)	

12.2. Persistence and degradability

12.2. I croistence and degradability		
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	
MENTHOL UNLABELED (2216-51-5)		
Persistence and degradability	Not available.	
Biodegradation	92 % Readily biodegradable (OECD Test Guideline 301D)	
12.3. Bioaccumulative potential		
MENTHOL UNLABELED 1 MG/ML IN METHAN	OL	
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	
MENTHOL UNLABELED (2216-51-5)		
Log Pow	3.25	
Bioaccumulative potential	Indication of bioaccumulation.	
12.4. Mobility in soil		
100% METHANOL UNLABELED (67-56-1)		
Ecology - soil Not degradable in the soil.		
12.5. Results of PBT and vPvB assessment		
100% METHANOL UNLABELED (67-56-1)		
PBT: not relevant – no registration required		
12.6. Other adverse effects		
No additional information available		

SECTION 13: Disposal consideration	s
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.
SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / IATA / AI)N
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

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Hazard labels (DOT)	: 3 - Flammable liquid 6.1 - Poison
	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
14.3. Additional information	
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 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" of 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	
	x II of MARPOL 73/78 and the IBC Code
Not applicable	
05/11/2019	EN (English US) 10/1

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SECTION 15: Regulatory information				
15.1. US Federal regulations				
MENTHOL UNLABELED 1 MG/ML IN METHANOL				
Listed on the United States TSCA (Toxic Substan	ces 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			
MENTHOL UNLABELED (2216-51-5)				
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporing requirements of the United States SARA Section 302.			
SARA Section 313 - Emission Reporting	Not subject to reporing requirements of the United States SARA Section 313.			

15.2. International regulations

CANADA

MENTHOL UNLABELED 1 MG/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

MENTHOL UNLABELE	ED 1 MG/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		
State or local regulations		U.S Idaho - Non-Carcinoge U.S Massachusetts - Right U.S Pennsylvania - RTK (R U.S New Jersey - Right to I		table Ambient Concentrations
100% METHANOL UN	LABELED (67-56-1)			
U.S California - Proposition 65 -	U.S California - Proposition 65 -	U.S California - Proposition 65 -	U.S California - Proposition 65 -	No significant risk level (NSRL)

Proposition 65 - Carcinogens List	Proposition 65 - Developmental Toxicity	Proposition 65 - Reproductive Toxicity - Female	Proposition 65 - Reproductive Toxicity - Male	(NSRL)
No	Yes	No	No	

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MENTHOL UNLABELED (2216-51-5)				
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 UNLABI	ELED (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				
MENTHOL UNLABELED (2216-51-5)				
State or local regulations				
U.S Pennsylvania - RTK (Right to Know) List U.S New Jersey - Right to Know Hazardous Substance List				

SECTION 16: Other information

Other information

: This product is not radioactive. The data given for this product are those of the corresponding unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled compounds are generally not available, but are assumed to be similar or identical to the corresponding unlabeled compound.

Full text of R-, H- and EUH-phrases:

Acute Tox. 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
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
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H225	Highly flammable liquid and vapor
H301	Toxic 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
H335	May cause respiratory irritation
H370	Causes damage to organs
R11	Highly flammable
R23	Toxic by inhalation
R24/25	Toxic in contact with skin and if swallowed
R36/38	Irritating to eyes and skin
R37/38	Irritating to respiratory system 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
F	Highly flammable
Т	Toxic
Xi	Irritant

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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