

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
 Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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 Version: 1.2

 NLM-10343-1.2
 Version: 1.2
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SECTION 1: Identification of 1.1. Product identifier	f the substance/mixture and of the company/undertaking
Product form	: Mixtures
Product name	: MICROCYSTIN-YR (15N10, 98%) 10 UG/ML IN 1:1 METHANOL:WATER
Product code	: NLM-10343-1.2
1.2. Relevant identified uses of	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 safety data sheet
Cambridge Isotope Laboratories, Inc. 50 Frontage Road Andover, MA 01810 USA	
USA: 1-800-322-1174 Int: 1-978-74 cilsales@isotope.com www.isotope	
Emergency telephone nu	mber
Emergency numbers:	
Chemtrec: 1-800-424-9300 (24 hour International: 1-703-741-5970 (24 hour	
SECTION 2: Hazards identif	ication
2.1. Classification of the subs	stance or mixture
Classification according to Regula	tion (EC) No. 1272/2008 [CLP]
Flam. Liq. 2 H22	
Acute Tox. 3 (Oral) H30	
Acute Tox. 3 (Dermal) H3	
Acute Tox. 3 (Inhalation:vapour) H33	
Skin Irrit. 2 H3 ⁻	
Eye Irrit. 2 H3	
STOT SE 1 H3	
Full text of hazard classes and H-stat	ements : see section 16
Classification according to Directiv	ve 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. Lig. 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 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 vapor. 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.

Labeling according to Regulation (EC) N	o. 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 (eyes, heart, kidneys, liver, central nervous system) (in contact with skin, if inhaled, if swallowed) 		
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, mist, vapors, fume, gas, 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)	: Danger		
Hazard statements (GHS-US)	 Hanger 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 (eyes, kidneys, liver, heart, central nervous system) (Dermal Inhalation, oral) 		
Precautionary statements (GHS-US)	 P210 - Keep away from heat, open flames, 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, mist, gas, spray, vapors. P261 - Avoid breathing dust, fume, gas, spray, vapors, mist. 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 clothing, protective gloves. P301+P310 - If swallowed: Immediately call a doctor, a POISON CENTER P302+P352 - If on skin: Wash with plenty of water P303+P361+P333 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P307+P311 - If exposed: Call a poison center/doctor 		
	P311 - Call a doctor, a POISON CENTER		
03/02/2020	EN (English US) 2/13		

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- 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, carbon dioxide (CO2), dry
- extinguishing powder to extinguish.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P403+P235 Store in a well-ventilated place. Keep cool.
- P405 Store locked up.

P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

2.3. Other hazards

PBT: not relevant - no registration required

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures			
Name	Product identifier	%	Classification according to Directive 67/548/EEC
WATER UNLABELED	(CAS-No.) 7732-18-5 (EC-No.) 231-791-2	55.8341	Not classified
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	44.1648	F; R11 T; R39/23/24/25 Xi; R36/38
MICROCYSTIN-YR (15N10, 98%)	(CAS-No.) 101064-48-6 (Unlabeled)	0.0011	R43 Xi; R36/37/38 T+; R26/27/28
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
WATER UNLABELED	(CAS-No.) 7732-18-5 (EC-No.) 231-791-2	55.8341	Not classified
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	44.1648	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
MICROCYSTIN-YR (15N10, 98%)	(CAS-No.) 101064-48-6 (Unlabeled)	0.0011	Acute Tox. 2 (Oral), H300 Acute Tox. 2 (Dermal), H310 Acute Tox. 1 (Inhalation), H330 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335
Name	Product identifier	%	GHS-US classification
WATER UNLABELED	(CAS-No.) 7732-18-5	55.8341	Not classified
100% METHANOL UNLABELED	(CAS-No.) 67-56-1	44.1648	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
MICROCYSTIN-YR (15N10, 98%)	(CAS-No.) 101064-48-6 (Unlabeled)	0.0011	Acute Tox. 2 (Oral), H300 Acute Tox. 2 (Dermal), H310 Acute Tox. 1 (Inhalation), H330 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 STOT SE 3, H335

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

SECTION 4. Einst side	
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, i 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	ical 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 5	-
5.2. Special hazards arising from the	
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 m	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	
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	
	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.	

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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 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, includin	ng any incompatibilities	
Technical measures	: Ground/bond container and receiving equipment. Store in a well-ventilated place. Keep	

Storage conditions

- container tightly closed. Store locked up.: Store in freezer (-20°C). Protect from light.
- 7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure c	ontrols/personal protection	
Control parameters		
MICROCYSTIN-YR (15N10, 9	8%) 10 UG/ML IN 1:1 METHANOL:WATER	
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)

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100% METHANOL UNLABEL	ED (67-56-1)		
Italy - Portugal - USA ACGIH	Remark (ACGIF	1)	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 (TV	VA) (mg/m³)	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 (ST	FEL) (mg/m³)	325 mg/m ³ Basis: NIOSH Recommended Exposure Limits
USA NIOSH	NIOSH REL (ST	EL) (ppm)	250 ppm Basis: NIOSH Recommended Exposure Limits
USA NIOSH	Remark (NIOSH	ł)	Potential for dermal absorption.
USA OSHA	OSHA PEL (TW	/A) (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)
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USA OSHA	OSHA PEL (ST	EL) (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 (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 notati	
MICROCYSTIN-YR (15N10, 9	8%) 10 UG/ML IN	1:1 METHANOL:WATER	
DNEL/DMEL (Workers)			
Acute - systemic effects, derm	al	40 mg/kg bodyweight/day	
Acute - systemic effects, inhala		260 mg/m ³	
Acute - local effects, dermal		260 mg/cm ²	
Long-term - systemic effects, o	dermal	40 mg/kg bodyweight/day	
Long-term - local effects, derm		260 mg/cm ²	
Long-term - local effects, inhalation		260 mg/m ³	
DNEL/DMEL (General populat			
Acute - systemic effects, derm		8 mg/kg body weight	
Acute - systemic effects, inhala	ation	50 mg/m ³	
Acute - systemic effects, oral		8 mg/kg body weight	
Acute - local effects, inhalation		50 mg/m ³	
Long-term - systemic effects,oral		8 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation		50 mg/m ³	
Long-term - systemic effects, dermal		8 mg/kg bodyweight/day	
5		50 mg/m³	
PNEC (Water)			
PNEC aqua (freshwater)		154 mg/l	
		15.4 mg/l	
PNEC (Sediment)		1	
PNEC sediment (freshwater)		570.4 mg/kg dwt	
PNEC (Soil)		1	
PNEC soil		23.5 mg/kg dwt	
PNEC (STP)		1	
PNEC sewage treatment plant	t	100 mg/kg	

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8.2. Exposure controls	
Appropriate engineering controls	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
Personal protective equipment	: Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.
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.

9.1. Information on basic physical and	I chemical properties
Physical state	: Liquid
Appearance	: Liquid
Color	: Colorless
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
/apor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosion limits	: No data available

Other information 9.2.

No additional information available

SECT	ON 10: Stability and reactivity
10.1.	Reactivity
Vapors	may form flammable mixture with air. Highly flammable liquid and vapor.
10.2.	Chemical stability
Product	is stable in unopened container until retest/review date, if stored as recommended.
10.3.	Possibility of hazardous reactions
No dang	gerous reactions known under normal conditions of use.
10.4.	Conditions to avoid
A	enterterite bet enderen i best. No General versionelle Effecte ell'enteren effective

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

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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.

LD50 oral rat1187 - 2769 mg/kgLD50 dermal rabbit17100 mg/kgLC50 inhalation rat (mg/l)128.2 mg/kh i; 87.6 mg/l - 6 hATE CLP (oral)100.000 mg/kg body weightATE CLP (dermal)17.100 mg/kg body weightATE CLP (dermal)17.100 mg/kg body weightATE CLP (dust, mist)128.2 00 mg/l/4hLD0, oral, human143 mg/kg Remarks: Lungs, Thorax, or Respiration: Dyspnea. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.100% METHANOL UNLABELED (67-56-1)LD50 oral rat1187 - 2769 mg/kgLD50 dermal rabbit17100 mg/kgLC50 inhalation rat (mg/l)128.2 mg/l/4h ; 87.6 mg/l - 6 hATE CLP (dermal)100.000 mg/kg body weightATE CLP (vapors)30000 mg/kg body weightATE CLP (dermal)300.000 mg/kg body weightATE CLP (vapors)30000 mg/kg body weightATE CLP (vapors)30000 mg/kg body weightATE CLP (vapors)5.000 mg/kg body weightATE CLP (vapors)0.000 mg/kg body weightATE CLP (vapors)0.000 mg/kg body weightATE CLP (vapors)0.000 mg/kg body weightATE CLP (vapors)0.005 mg/l/4hATE CLP (vapors)0.005 mg/l/4hATE CLP (vapors)0.005 mg/l/4hATE CLP (vapors)0.050 mg/kgATE CLP (vapors)0.050 mg/l/4hATE CLP (vapors)0.050 mg/l/4hATE CLP
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 (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. 100% METHANOL UNLABELED (67-56-1) LD50 dermal rabbit LD50 oral rat 1187 - 2769 mg/kg LC50 inhalation rat (mg/l) 128.200 mg/l/4h, 187.6 mg/l - 6 h ATE CLP (dermal) 300.000 mg/kg body weight ATE CLP (aral) 100.000 mg/kg body weight ATE CLP (dermal) 300.000 mg/kg body weight ATE CLP (dermal) 300.000 mg/kg body weight ATE CLP (dust, mist) 128.200 mg/l/4h ATE CLP (dust, mist) 128.200 mg/l/4h DLO, oral, human 143 mg/kg Remarks: Lungs, Thorax, or Respiration: Dyspnea. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. MICROCYSTIN-YR (15N10, 98%) (101064-48- (Unlabeled) MICROCYSTIN-YR (15N10, 98%) (101064-48- (Unlabeled) ATE CLP (dermal) 5.000 mg/kg body weight ATE CLP (qarans) 0.050 mg/l/4h ATE CLP (qorans)
ATE CLP (oral)100.000 mg/kg body weightATE CLP (dermal)17.100 mg/kg body weightATE CLP (dust, mist)128.200 mg/l/4hLDLO, oral, human143 mg/kg Remarks: Lungs, Thorax, or Respiration: Dyspnea. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.100% METHANOL UNLABELED (67-56-1)LD50 oral rat1187 - 2769 mg/kgLD50 dermal rabbit17100 mg/kgLD50 inhalation rat (mg/l)128.2 mg/l/4h; 87.6 mg/l - 6 hATE CLP (dermal)300.000 mg/kg body weightATE CLP (dermal)30.000 mg/kg body weightATE CLP (dermal)50.000 mg/kg body weightATE CLP (dust, mist)128.200 mg/l/4hLDCL, oral, human143 mg/kg Remarks: Lungs, Thorax, or Respiration: Dyspnea. Ingestion may cause gastrointestinal irritation, nausea, vorniting and diarrhea.MICROCYSTIN-YR (15N10, 98%) (101064-48-6 (Unlabeled))ATE CLP (oral)5.000 mg/kg body weightATE CLP (qarenal)5.000 mg/kg body weightATE CLP (qust, mist)0.050 mg/l/4hATE CLP (qust, mist)0.050 mg/l/4hATE CLP (dust, mist)0.050 mg/l/4hATE CLP (qust, mist)0.050 mg/l/4hATE CLP (qust, mist)0.050 m
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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.exposureNo 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.

NLM-10343-1.2

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

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.	
MICROCYSTIN-YR (15N10, 98%) 10 UG/ML I	N 1:1 METHANOL:WATER	
LC50 fish 1	15400 mg/l mortality LC50 - Lepomis machrochirus (Bluegill) - 96 h	
EC50 Daphnia 1	> 10000 mg/l Daphnia magna (Water flea) - 48 h	
EC50 Daphnia 2	22000 mg/l Growth inhibition EC50 - Scenedesmus capricornutum (fresh water algae) - 96 h	
NOEC (acute)	7900 mg/l Oryzias latipes - 200 h	
100% METHANOL UNLABELED (67-56-1)		
LC50 fish 1	15400 mg/l mortality LC50 - Lepomis machrochirus (Bluegill) - 96 h	
EC50 Daphnia 1	> 10000 mg/l Daphnia magna (Water flea) - 48 h	
EC50 Daphnia 2	22000 mg/l Growth inhibition EC50 - Scenedesmus capricornutum (fresh water algae) - 96 h	
NOEC (acute)	7900 mg/l Oryzias latipes - 200 h	
12.2. Persistence and degradability		
MICROCYSTIN-YR (15N10, 98%) 10 UG/ML I	N 1:1 METHANOL:WATER	
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	
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		
MICROCYSTIN-YR (15N10, 98%) 10 UG/ML IN 1:1 METHANOL:WATER		
BCF fish 1	5 mg/l Cyprinus carpio (Carp) - 72 d at 20 °C	
Bioconcentration factor (BCF REACH)		
100% METHANOL UNLABELED (67-56-1)		
BCF fish 1	5 mg/l Cyprinus carpio (Carp) - 72 d at 20 °C	
Bioconcentration factor (BCF REACH)		
Log Pow	-0.77	
	0.11	
12.4. Mobility in soil		
MICROCYSTIN-YR (15N10, 98%) 10 UG/ML I		
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 assessment		
MICROCYSTIN-YR (15N10, 98%) 10 UG/ML IN 1:1 METHANOL:WATER		
PBT: not relevant – no registration required		
100% METHANOL UNLABELED (67-56-1)		
PBT: not relevant – no registration required		
12.6. Other adverse effects		
Other adverse effects	: Avoid release to the environment.	
Other information	: Stability in water: at 19 °C - (83 - 91%) - 72 h. Remarks: Hydrolyses on contact with water.	
	Hydrolyses readily.	
SECTION 13: Disposal consideration		

SECTION 13: Disposal considerations 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.

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6, 2012 / Rules and 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 / 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 LOUID 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
DOT RQ	: 5000 lbs
Marine pollutant	: No
14.3. Additional information	
Emergency Response Guide (ERG) Number	: 131

Other information	: No supplementary information available.
Overland transport Packing group (ADR) Class (ADR) Hazard identification number (Kemler No.) Classification code (ADR) Hazard labels (ADR)	 II 3 - Flammable liquid 336 FT1 3 - Flammable liquids 6.1 - Toxic substances
	\mathbf{v}

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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" 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 Anne	x II of MARPOL 73/78 and the IBC Code
Not applicable	
SECTION 15: Regulatory information	
15.1. US Federal regulations	

15.1. US Federal regulations		
MICROCYSTIN-YR (15N10, 98%) 10 UG/ML IN 1:1 METHANOL:WATER		
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	
WATER UNLABELED (7732-18-5)		
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.	
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.	
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	
MICROCYSTIN-YR (15N10, 98%) (101064-48-6 (Unlabeled))		
SARA Section 302 Threshold Planning Quantity (TPQ)	SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard	
SARA Section 313 - Emission Reporting	Not subject to reporing requirements of the United States SARA Section 313	

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15.2. International regulations	
CANADA	
MICROCYSTIN-YR (15N10, 98%) 10 UG/ML IN 1:1 METHAI	NOL:WATER
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

	MICROCYSTIN-YR (15N10, 98%) 10 UG/ML IN 1:1 METHANOL:WATER			
U.S California - Proposition 65 - Carcinogens List		No		
U.S California - Proposition Toxicity	n 65 - Developmental	Yes		
U.S California - Proposition Toxicity - Female	n 65 - Reproductive	No		
U.S California - Proposition Toxicity - Male	n 65 - Reproductive	No		
State or local regulations		U.S Idaho - Non-Carcinoge U.S Massachusetts - Right U.S Pennsylvania - RTK (R U.S New Jersey - Right to P	ischarge Requirements - Repor nic Toxic Air Pollutants - Accep To Know List ight to Know) List Know Hazardous Substance Lis of Releases Part 597 - List of Ha	table Ambient Concentrations
WATER UNLABELED (773	2-18-5)			
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)		·	
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	
MICROCYSTIN-YR (15N10, 98%) (101064-48-6 (Unlabeled))				
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	
WATER UNLABELED (7732-18-5)				
State or local regulations				
U.S Pennsylvania - RTK (I U.S New Jersey - Right to		e 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				
MICROCYSTIN-YR (15N10, 98%) (101064-48-6 (Unlabeled))				
State or local regulations				
U.S New Jersey - Right to Know Hazardous Substance List				
03/02/2020		nglish US)		12/13

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MICROCYSTIN-YR (15N10, 98%) (101064-48-6 (Unlabeled))

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

SECTION 16: Other information

Other information

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

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

Acute Tox. 1 (Inhalation)	Acute toxicity (inhalation) Category 1
Acute Tox. 2 (Dermal)	Acute toxicity (dermal) Category 2
Acute Tox. 2 (Oral)	Acute toxicity (oral) Category 2
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
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
Skin Sens. 1	Skin sensitization, Category 1
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
H300	Fatal if swallowed
H301	Toxic if swallowed
H310	Fatal in contact with skin
H311	Toxic in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H330	Fatal if inhaled
H331	Toxic if inhaled
H335	May cause respiratory irritation
H370	Causes damage to organs
R11	Highly flammable
R26/27/28	Very toxic by inhalation, in contact with skin and if swallowed
R36/37/38	Irritating to eyes, respiratory system and skin
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
R43	May cause sensitization by skin contact
F	Highly flammable
Т	Toxic
T+	Very toxic
Xi	Irritant

NFPA health hazard	: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
NFPA fire hazard	: 3 - Liquids and solids (including finely divided suspended solids) that can be ignited under almost all ambient temperature conditions.
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.
Hazard Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 3 Serious Hazard
Physical	: 0 Minimal Hazard

CIL Multi-Solvent 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