

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: 17/04/2015

CLM-6096-S

Revision date: 05/09/2018

Supersedes: 17/04/2015

Version: 1.1

1.1. Product ide		nce/mixture and of the company/undertaking
		Mixturee
Product form		
Product name		METHYLPHOSPHONIC ACID, MONOCYCLOHEXYL ESTER (CYCLOHEXYL-13C6, 99%) 100 UG/ML IN METHANOL
Product code		CLM-6096-S
1.2. Relevant id	entified uses of the substance	ce or mixture and uses advised against
	entified uses	
Industrial/Professiona	use spec	For professional use only
1.2.2. Uses advis	ed against	
No additional informat	on available	
1.3. Details of t	e supplier of the safety data	sheet
Cambridge Isotope La		
50 Frontage Road		
Andover, MA 01810 USA		
	Int: 1-978-749-8000	
cilsales@isotope.com	www.isotope.com	
Emergency	telephone number	
Emergency numbers:		
Chemtrec: 1-800-424	0300 (24 hours)	
International: 1-703-7		
SECTION 2: Haz	rds identification	
	on of the substance or mixtu	
	ing to Regulation (EC) No. 1	272/2008 [CLP]
Flam. Liq. 2	H225	
Acute Tox. 3 (Oral)	H301	
Acute Tox. 3 (Dermal)	H311	
Acute Tox. 3 (Inhalatio	. ,	
Skin Irrit. 2	H315	
Eye Irrit. 2	H319	
STOT SE 1	H370	
Full text of hazard clas	ses and H-statements : see se	action 16
Classification accord	ing to Directive 67/548/EEC	[DSD] or 1999/45/FC [DPD]
F: R11	ing to Directive 01/040/EEC	
T: R39/23/24/25		

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. 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 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)	
Signal word (CLP)	GHS02 GHS08 GHS06 : Danger
Hazard statements (CLP)	: H225 - Highly flammable liquid and vapour
	H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled
	H315 - Causes skin irritation H319 - Causes serious eye irritation
	H370 - Causes damage to organs (eyes, 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)	: 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, 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+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
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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, 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

32 Mixturos

5.2. WIXIUES	3.2. Mixtures			
Name	Product identifier	%	Classification according to Directive 67/548/EEC	
100% METHANOL UNLABELED	(CAS-No.) 67-56-1 (EC-No.) 200-659-6 (EC Index-No.) 603-001-00-X (REACH-no) 01-2119433307-44	99.987359	F; R11 T; R39/23/24/25 Xi; R36/38	
METHYLPHOSPHONIC ACID, MONOCYCLOHEXYL ESTER (CYCLOHEXYL-13C6, 99%)	(CAS-No.) 1932-60-1 (unlabeled)	0.0126	T; R23/24/25	
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	
METHYLPHOSPHONIC ACID, MONOCYCLOHEXYL ESTER (CYCLOHEXYL-13C6, 99%)	(CAS-No.) 1932-60-1 (unlabeled)	0.0126	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 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	

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

SECTION 4: First aid measures	
4.1. Description of first aid measure	S
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.
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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 eff	ects, 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 media	cal 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 s	
Fire hazard	: Highly flammable liquid and vapour.
Reactivity	: Vapors may form flammable mixture with air. Highly flammable liquid and vapour.
5.3. Advice for firefighters	
Firefighting instructions	: Do not enter fire area without proper protective equipment, including respiratory protection.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. Wear recommended personal protective equipment.
Other information	: Use water spray to cool exposed surfaces.
SECTION 6: Accidental release me	asures
6.1. Personal precautions, protective e	equipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Wear respiratory protection. Do not breathe dust, mist, gas, spray, vapors, fume. Avoid contact with skin, eyes and clothing. Ventilate spillage area. Remove all sources of ignition. No open flames, no sparks, and no smoking. Ensure adequate air ventilation. Special attention should be given to low areas/pits where flammable vapors can accumulate.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Prevent entry to sewers and public waters. Do	not allow to enter drains or water courses. Avoid release to the environment.
6.3. Methods and material for contain	nent and cleaning up
For containment	: Dike and contain spill.
Methods for cleaning up	 Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters. This material and its container must be disposed of in a safe way, and as per local legislation.
Other information	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	
For further information refer to section 13.	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed	: Handle empty containers with care because residual vapors are flammable.
Precautions for safe handling	: No open flames. No smoking. Use only non-sparking tools.
7.2. Conditions for safe storage, inclu	ding any incompatibilities
Technical measures	 Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical equipment.
Storage conditions	: Store refrigerated (-5 C to 5 C). Protect from light.
Incompatible materials	: Heat sources.
7.3. Specific end use(s)	
No additional information available	

No additional information available

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SECTION 8: Exposure c	ontrols/personal protection	
8.1. Control parameters		
METHYLPHOSPHONIC ACID	, MONOCYCLOHEXYL ESTER (CYCLOHEXYL-13C6, 9	99%) 100 UG/ML IN METHANOL
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	200.00000000 ppm Basis: USA. ACGIH Threshold Limit Values (TLV)
Italy - Portugal - USA ACGIH	ACGIH STEL (ppm)	250 ppm Basis: USA. ACGIH Threshold Limit Values (TLV)
Italy - Portugal - USA ACGIH	Remark (ACGIH)	Headache. Nausea. Dizziness. Eye damage. Substances for which there is a Biological Exposure Index or Indices (see BEI section). Danger of cutaneous absorption.
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	260 mg/m ³ Basis: NIOSH Recommended Exposure Limits
USA NIOSH	NIOSH REL (TWA) (ppm)	200 ppm Basis: NIOSH Recommended Exposure Limits
USA NIOSH	NIOSH REL (STEL) (mg/m ³)	325 mg/m ³ Basis: NIOSH Recommended Exposure Limits
USA NIOSH	NIOSH REL (STEL) (ppm)	250 ppm Basis: NIOSH Recommended Exposure Limits
USA NIOSH	Remark (NIOSH)	Potential for dermal absorption.
USA OSHA	OSHA PEL (TWA) (mg/m³)	260 mg/m ³ Basis: USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants - 1910.1000. California permissible exposure limits for chemical contaminants (Title 8, Article 107)
USA OSHA	OSHA PEL (TWA) (ppm)	200 ppm Basis: USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants - 1910.1000. California permissible exposure limits for chemical contaminants (Title 8, Article 107)
USA OSHA	OSHA PEL (STEL) (mg/m³)	325 mg/m ³ Basis: USA. OSHA - Table Z-1 Limits for Air Contaminants - 1910.1000. California permissible exposure limits for chemical contaminants (Title 8, Article 107)
USA OSHA	OSHA PEL (STEL) (ppm)	250 ppm Basis: USA. OSHA - Table Z-1 Limits for Air Contaminants - 1910.1000. California permissible exposure limits for chemical contaminants (Title 8, Article 107)
USA OSHA	OSHA PEL (Ceiling) (ppm)	1000 ppm California permissible exposure limits for chemical contaminants (Title 8, Article 107)
USA OSHA	Remark (OSHA)	The value in mg/m3 is approximate. Skin notation.
100% METHANOL UNLABEL	ED (67-56-1)	
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	200.00000000 ppm Basis: USA. ACGIH Threshold Limit Values (TLV)
Italy - Portugal - USA ACGIH	ACGIH STEL (ppm)	250 ppm Basis: USA. ACGIH Threshold Limit Values (TLV)
Italy - Portugal - USA ACGIH	Remark (ACGIH)	Headache. Nausea. Dizziness. Eye damage. Substances for which there is a Biological Exposure Index or Indices (see BEI section). Danger of cutaneous absorption.
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	260 mg/m ³ Basis: NIOSH Recommended Exposure Limits
USA NIOSH	NIOSH REL (TWA) (ppm)	200 ppm Basis: NIOSH Recommended Exposure Limits
USA NIOSH	NIOSH REL (STEL) (mg/m ³)	325 mg/m ³ Basis: NIOSH Recommended Exposure Limits
USA NIOSH	NIOSH REL (STEL) (ppm)	250 ppm Basis: NIOSH Recommended Exposure Limits
USA NIOSH	Remark (NIOSH)	Potential for dermal absorption.

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100% METHANOL UNLABELED (67-56-1)			
USA OSHA	OSHA PEL (TWA) (mg/m³)	260 mg/m ³ Basis: USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants - 1910.1000. California permissible exposure limits for chemical contaminants (Title 8, Article 107)	
USA OSHA	OSHA PEL (TWA) (ppm)	200 ppm Basis: USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants - 1910.1000. California permissible exposure limits for chemical contaminants (Title 8, Article 107)	
USA OSHA	OSHA PEL (STEL) (mg/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.	

METHYLPHOSPHONIC ACID, MONOCYCLOHEXYL ESTER (CYCLOHEXYL-13C6, 99%) 100 UG/ML IN METHANOL

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

Appropriate engineering controls

: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Wear eye protection. Chemical goggles or face shield with safety glasses.Wear suitable protective clothing, gloves and eye/face protection.

Personal protective equipment



: Wear suitable protective clothing and gloves.

Wear suitable protective clothing and gloves.

Materials for protective clothing Hand protection Eye protection Skin and body protection

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Respiratory protection

Environmental exposure controls

: In case of inadequate ventilation wear respiratory protection. Approved supplied air respirator. : 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)		

Other information 9.2.

κ. -1 -1 **:** 4 : ...: المالمان

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

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Serious eye damage/irritation: Eyes. Rabbit. Result: No eye irritationRespiratory 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 femaleCarcinogenicity: Not classifiedReproductive 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 organsSpecific target organ toxicity – repeated exposure: The substance or mixture is not classified as specific target organ toxicant, repeated exposure. No data availableAspiration 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 construct 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 skin contact: Toxic if inhaled. : Toxic in contact with skin. Causes skin irritation.Symptoms/effects after eye contact: Causes serious eye irritation.		
LD50 dermal rabbit 17100 mg/kg LC50 inhalation rat (mg/l) 122.2 mg/4h; 87.6 mg/l - 6 h ATE CLP (rola) 100.000 mg/kg body weight ATE CLP (rola) 300.000 mg/kg body weight ATE CLP (vapors) 3.000 mg/4h ATE CLP (rola) 128.200 mg/4h ATE CLP (rola) 128.200 mg/4h ATE CLP (rola) 128.200 mg/4h ATE CLP (rola) 500.000 mg/kg body weight ATE CLP (rola) 500.000 mg/kg body weight ATE CLP (rola) 500.000 mg/kg body weight 100% METHANOL UNLABELED (67-56-1) LD50 oral rat LD50 oral rat 1187 - 2769 mg/kg LD50 oral rat 1187.2769 mg/kg LD50 oral rat 128.20 mg/4h ATE CLP (vara) 300.000 mg/kg body weight ATE CLP (vara) 30.000 mg/kg body weight ATE CLP (vara)		
LC50 inhalation rat (mg/l) 128.2 mg/l4h; 87.6 mg/l - 6 h ATE CLP (eral) 100.000 mg/kg body weight ATE CLP (erama) 3.000 mg/kg body weight ATE CLP (dermal) 3.000 mg/l4h LD0, oral, human 143 mg/kg Remarks: Lungs, Thorax, or Respiration: Dyspnea. Ingestion may cause gastromestinal irritation, nausea, vomiting and darrhea. METHYLPHOSPHONIC ACID, MONOCYCLOHEXVL ESTER (CYCLOHEXVL-13C6, 99%) (1932-60-1 (unlabeled)) ATE CLP (oral) 500.000 mg/kg body weight 1050 oral rat 1187 - 2769 mg/kg LD50 oral rat 1182 .2 mg/l4h; 87.6 mg/l - 6 h ATE CLP (oral) 100.000 mg/kg body weight ATE CLP (deral) 300.000 mg/kg body weight ATE CLP (deral) 300.000 mg/kg. ATE CLP (deral) 100.000 mg/kg body weight ATE CLP (dust, mist) 128.200 mg/l4h LD20 (dust, mist) 128.200 mg/l4h		
ATE CLP (rotal) 100.000 mg/kg body weight ATE CLP (dermai) 300.000 mg/kg body weight ATE CLP (dust, mist) 128.200 mg/l4h ATE CLP (dust, mist) 128.200 mg/l4h LDLQ, oral, human 143 mg/kg marksts: Lungs, Thorax, or Respiration: Dyspnea. Ingestion may cause gastrointestimal irritation, nausea, vomiting and diarrhea. METHYLPHOSPHONIC ACID, MONOCYCLOHEXYL ESTER (CYCLOHEXYL-13C6, 99%) (1932-60-1 (unlabeled)) ATE CLP (oral) 500.000 mg/kg body weight 100% METHANOL UNLABELED (67-56-1) 1187 - 2759 mg/kg LDS0 oral rat 1187 - 2759 mg/kg LDS0 and rat 1100.000 mg/kg body weight ATE CLP (oral) 100.000 mg/kg body weight ATE CLP (oral) 100.000 mg/kg body weight ATE CLP (demai) 300.000 mg/kg body weight ATE CLP (dust, mist) 128.200 mg/l4h LDC, oral, human 143 mg/kg Remarks: Lungs, Thorax, or Respiration: Dyspnea. Ingestion may cause gastrointestimal irritation, nausea, vormiting and darrhea. Skin corosion/irritation : Skin, Rabbit. Result: No skin irritation Serious eye damage/irritation : Skin, Rabbit. Result: No skin irritation Germicell mutagenicity : Amage Rabbit. Result: No skin irritation Carcinogenicity : Amage Rabbit. Result:		
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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. Mutagenicity (in vio mammalian bonatic cells. Mutagenicity (in vio mammalian bone-marrow cystogenetic test, chromosomal analysis) - Mouse - male and female Result: negative. Mouse - male and female 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 Specific target organ toxicity – repeated : The substance or mixture is not classified as specific target organ toxicant, repeated exposure. No data available Aspiration hazard : No aspiration toxicity classification. : Potential Adverse human health effects and symptoms : This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. Effects due to Ingestion may include: Headache. Dizzine		143 mg/kg Remarks: Lungs, Thorax, or Respiration: Dyspnea. Ingestion may cause
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Reproductive toxicity : Damage to fetus not classifiable. Fertility classification not possible from current data. Specific target organ toxicity – single exposure : Causes damage to organs through prolonged or repeated exposure Causes damage to organs Specific target organ toxicity – repeated exposure : The substance or mixture is not classified as specific target organ toxicant, repeated exposure. No data available Aspiration hazard : No aspiration toxicity classification. Potential Adverse human health effects and symptoms : This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. Effects due to Ingestion may include: Headache. Dizziness. Drowsiness. metabolic acidosis. Coma. May be fatal if swallowed and enters airways. If swallowed there is a risk of blindness. Effects on humans. stomach. Symptoms/effects after inhalation : Toxic if inhaled. Symptoms/effects after eye contact : Toxic in contact with skin. Causes skin irritation. Symptoms/effects after eye contact : Causes serious eye irritation.	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
 Specific target organ toxicity – single exposure Causes damage to organs through prolonged or repeated exposure Causes damage to organs Specific target organ toxicity – repeated exposure The substance or mixture is not classified as specific target organ toxicant, repeated exposure. No data available Aspiration hazard No aspiration toxicity classification. 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. Toxic in contact with skin. Causes skin irritation. Symptoms/effects after eye contact Causes serious eye irritation. 	Carcinogenicity	: Not classified
Specific target organ toxicity – single exposure: Causes damage to organs through prolonged or repeated exposure Causes damage to organsSpecific target organ toxicity – repeated exposure: The substance or mixture is not classified as specific target organ toxicant, repeated exposure. No data availableAspiration 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 eye contact: Toxic is contact with skin. Causes skin irritation.Symptoms/effects after eye contact: Causes serious eye irritation.	Reproductive toxicity	: Damage to fetus not classifiable. Fertility classification not possible from current data.
Specific target organ toxicity – repeated exposureCauses damage to organsSpecific target organ toxicity – repeated exposure: The substance or mixture is not classified as specific target organ toxicant, repeated exposure. No data availableAspiration 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 eye contact: Toxic is contact with skin. Causes skin irritation.Symptoms/effects after eye contact: Causes serious eye irritation.		
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 Potential Adverse human health effects and symptoms Symptoms/effects after inhalation Toxic if inhaled. Toxic in contact with skin. Causes skin irritation. Causes serious eye irritation. 	Specific target organ toxicity – repeated exposure	
symptomsthe 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.	Aspiration hazard	: No aspiration toxicity classification.
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.	Potential Adverse human health effects and symptoms	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 skin contact: Toxic in contact with skin. Causes skin irritation.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 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.		
METHYLPHOSPHONIC ACID, MONOCYCLOHEXYL ESTER (CYCLOHEXYL-13C6, 99%) 100 UG/ML IN METHANOL			
LC50 fish 1	15400 mg/l mortality LC50 - Lepomis machrochirus (Bluegill) - 96 h		
EC50 Daphnia 1	> 10000 mg/l Daphnia magna (Water flea) - 48 h		

Looo hon 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	

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100% METHANOL UNLABELED (67-56-1)		
LC50 fish 1	15400 mg/l mortality LC50 - Lepomis machrochirus (Bluegill) - 96 h	
EC50 Daphnia 1	> 10000 mg/l Daphnia magna (Water flea) - 48 h	
EC50 Daphnia 2	22000 mg/l Growth inhibition EC50 - Scenedesmus capricornutum (fresh water algae) - 96 h	
NOEC (acute)	7900 mg/l Oryzias latipes - 200 h	

2.2. Persistence and degradability	
·	IEXYL ESTER (CYCLOHEXYL-13C6, 99%) 100 UG/ML IN METHANOL
Biochemical oxygen demand (BOD)	600 - 1200 mg/g
Chemical oxygen demand (COD)	1420 mg/g
ThOD Piedegradation	1500 mg/g 72 % - rapidly biodegradable aerobic - Exposure time 5 d
Biodegradation	
METHYLPHOSPHONIC ACID, MONOCYCLOF Persistence and degradability	IEXYL ESTER (CYCLOHEXYL-13C6, 99%) (1932-60-1 (unlabeled)) Not available.
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
2.3. Bioaccumulative potential	
· · · · · · · · · · · · · · · · · · ·	IEXYL ESTER (CYCLOHEXYL-13C6, 99%) 100 UG/ML IN METHANOL
BCF fish 1	5 mg/l Cyprinus carpio (Carp) - 72 d at 20 °C
Bioconcentration factor (BCF REACH)	1
Log Pow	-0.77
METHYLPHOSPHONIC ACID, MONOCYCLOF	IEXYL ESTER (CYCLOHEXYL-13C6, 99%) (1932-60-1 (unlabeled))
Bioaccumulative potential	Not available.
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
2.4. Mobility in soil	
METHYLPHOSPHONIC ACID, MONOCYCLOF	IEXYL ESTER (CYCLOHEXYL-13C6, 99%) 100 UG/ML IN METHANOL
Ecology - soil	Not degradable in the soil.
METHYLPHOSPHONIC ACID. MONOCYCLOH	IEXYL ESTER (CYCLOHEXYL-13C6, 99%) (1932-60-1 (unlabeled))
Ecology - soil	Not available.
100% METHANOL UNLABELED (67-56-1)	
Ecology - soil	Not degradable in the soil.
2.5. Results of PBT and vPvB assessmen	nt
	IEXYL ESTER (CYCLOHEXYL-13C6, 99%) 100 UG/ML IN METHANOL
PBT: not relevant – no registration required	
100% METHANOL UNLABELED (67-56-1)	
PBT: not relevant – no registration required	
2.6. Other adverse effects	
2.6. 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	S
3.1. Waste treatment methods	
Regional legislation (waste)	: Waste materials should be disposed of under conditions which meet Federal, State, and loc
	environmental control regulations.
roduct/Packaging disposal recommendations	: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licens professional waste disposal service to dispose of this material.
	professional waste disposal service to dispose of this material.

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SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / IATA / A	NDN
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
	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
	temperature in degrees celsius of the liquid during filling, and a is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filling (tf) and the maximum mean bulk temperature during transportation (tr) both in degrees celsius. b. For liquids transported under ambient conditions may be calculated using the formula: (image) Where: d15 and d50 are the densities (in units of mass per unit volume) of the liquid at 15 C (59 F) and 50 C (122 F), respectively.
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
	Ale sound an estant information and the
Other information	: No supplementary information available.
Overland transport	
Packing group (ADR)	: 11
Class (ADR)	: 3 - Flammable liquid
Hazard identification number (Kemler No.)	: 336
	: 336 : FT1
Classification code (ADR)	
Hazard labels (ADR)	: 3 - Flammable liquids 6.1 - Toxic substances
Orange plates	336 1230
Tunnel restriction code (ADR)	: D/E
Limited quantities (ADR)	11
Excepted quantities (ADR)	: E2
	. LL

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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

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" passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.	
DOT Vessel Stowage Other	: 40 - Stow "clear of living quarters"	
MFAG-No	: 131	
Air transport		
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 1L	
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 60 L	
Civil Aeronautics Law	: Flammable liquids	
14.4. Environmental hazards		
Other information	: No supplementary information available.	
14.5. Special precautions for user		

14.6. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15:	Regulator	y information
	regulator	y mornation

15.1. US Fe	deral regulations
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METHYLPHOSPHONIC ACID, MONOCYCLOHEXYL ESTER (CYCLOHEXYL-13C6, 99%) 100 UG/ML IN METHANOL			
Listed on the United States TSCA (Toxic Substances Control Act) inventory			
CERCLA RQ	5000 lb		
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.		
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard		
SARA Section 313 - Emission Reporting	Subject to reporting requirements of United States SARA Section 313		
100% METHANOL UNLABELED (67-56-1)			
Listed on the United States TSCA (Toxic Subst	tances Control Act) inventory		
CERCLA RQ	5000 lb		
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.		
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard		
SARA Section 313 - Emission Reporting	Subject to reporting requirements of United States SARA Section 313		
15.2. International regulations			

CANADA

METHYLPHOSPHONIC ACID, MONOCYCLOHEXYL ESTER (CYCLOHEXYL-13C6, 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

METHYLPHOSPHONIC ACID, MONOCYCLOHEXYL ESTER (CYCLOHEXYL-13C6, 99%) 100 UG/ML IN METHANOL				
U.S California - Proposition 65 - Carcinogens List No				
U.S California - Proposition 65 - Developmental Toxicity	Yes			
U.S California - Proposition 65 - Reproductive Toxicity - Female	No			
U.S California - Proposition 65 - Reproductive Toxicity - Male	No			
State or local regulations	U.S Delaware - Pollutant Discharge Requirements - Reportable Quantities			

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METHYLPHOSPHONIC ACID, MONOCYCLOHEXYL ESTER (CYCLOHEXYL-13C6, 99%) 100 UG/ML IN METHANOL				
U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentratio 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				t
100% METHANOL UNLABELED (67-56-1)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	Yes	No	No	
100% METHANOL UNLAB	100% METHANOL UNLABELED (67-56-1)			
State or local regulations				
U.S Delaware - Pollutant Discharge Requirements - Reportable Quantities U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations				

U.S. - Massachusetts - Right To Know List

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

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

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

SECTION 16: Other information

Other information

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

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

text of R-, H- and EUH-phrases:	
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 Corr. 1B	Skin corrosion/irritation Category 1B
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 1	Specific target organ toxicity (single exposure) Category 1
H225	Highly flammable liquid and vapour
H301	Toxic if swallowed
H302	Harmful if swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H331	Toxic if inhaled
H370	Causes damage to organs
R11	Highly flammable
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed
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
F	Highly flammable
Т	Toxic
Xi	Irritant

NFPA health hazard

: 2 - Materials that, under emergency conditions, can cause

NFPA fire hazard

temporary incapacitation or residual injury.

: 3 - Liquids and solids (including finely divided suspended solids) that can be ignited under almost all ambient temperature conditions.



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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

, 0	
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

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