

### 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: 28/06/2016 Revision date: 28/01/2019 Supersedes: 28/06/2016 Version: 1.1

ES-5547

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixtures

Product name : DIALKYL PHOSPHATE AND PHOSPHOROTHIOATE COCKTAIL (D, 98%) 10 UG/ML IN

METHANOL

Product code : ES-5547

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Main use category : Professional use

Industrial/Professional use spec : For professional use only

1.2.2. Uses advised against

No additional information available

### 1.3. Details of the supplier of the safety data sheet

Cambridge Isotope Laboratories, Inc.

50 Frontage Road Andover, MA 01810

AIIUUVEI, IVIA

USA: 1-800-322-1174 Int: 1-978-749-8000 <u>cilsales@isotope.com</u> www.isotope.com

### **Emergency telephone number**

Emergency numbers:

Chemtrec: 1-800-424-9300 (24 hours) International: 1-703-741-5970 (24 hours)

### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

### Classification according to Regulation (EC) No. 1272/2008 [CLP]

 Flam. Liq. 2
 H225

 Acute Tox. 3 (Oral)
 H301

 Acute Tox. 3 (Dermal)
 H311

 Acute Tox. 3 (Inhalation:vapour)
 H331

 Skin Irrit. 2
 H315

 Eye Irrit. 2
 H319

 STOT SE 1
 H370

Full text of hazard classes and H-statements : see section 16

### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

F; R11

T; R39/23/24/25 Xi; R36/38

Full text of R-phrases: see section 16

### **GHS-US** classification

Flam. Liq. 2 H225
Acute Tox. 3 (Oral) H301
Acute Tox. 3 (Dermal) H311
Acute Tox. 3 (Inhalation:vapour) H331
Skin Irrit. 2 H315
Eye Irrit. 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.

#### 22 Label elements

#### Labeling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)





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

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)







Signal word (GHS-US) : Danger

Hazard statements (GHS-US) 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)

P210 - Keep away from heat, open flames, sparks. - No smoking. Precautionary statements (GHS-US)

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**

### **Substances**

Not applicable

### **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	99.9924	F; R11 T; R39/23/24/25 Xi; R36/38
O,O-DIMETHYLPHOSPHORIC ACID, POTASSIUM SALT (DIMETHYL-D6, 98%)	(CAS-No.) 37919-86-1 (Unlabeled)	0.0013	Not classified
O,O-DIETHYLPHOSPHORIC ACID, POTASSIUM SALT (DIETHYL-D10, 98%)	(CAS-No.) 53971-30-5 (Unlabeled)	0.0013	Not classified
O,O-DIMETHYLPHOSPHOROTHIOATE, POTASSIUM SALT (DIMETHYL-D6, 98%) 97%+ PURE	(CAS-No.) 28523-79-7 (Unlabeled)	0.0013	Xi; R36/37/38
O,O-DIETHYLPHOSPHOROTHIOATE, POTASSIUM SALT (DIETHYL-D10, 98%)	(CAS-No.) 5871-17-0 (Unlabeled)	0.0013	Xi; R36/37/38
O,O-DIETHYLPHOSPHORODITHIOATE, POTASSIUM SALT (DIETHYL-D10, 98%)	(CAS-No.) 3454-66-8 (Unlabeled)	0.0013	Xi; R36/37
O,O-DIMETHYLPHOSPHORODITHIOATE, POTASSIUM SALT (DIMETHYL-D6, 98%)	(CAS-No.) 16001-68-6 (Unlabeled)	0.0013	N; R50/53 T+; R27/28

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	99.9924	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
O,O-DIMETHYLPHOSPHORIC ACID, POTASSIUM SALT (DIMETHYL-D6, 98%)	(CAS-No.) 37919-86-1 (Unlabeled)	0.0013	Not classified
O,O-DIETHYLPHOSPHORIC ACID, POTASSIUM SALT (DIETHYL-D10, 98%)	(CAS-No.) 53971-30-5 (Unlabeled)	0.0013	Not classified
O,O-DIMETHYLPHOSPHOROTHIOATE, POTASSIUM SALT (DIMETHYL-D6, 98%) 97%+ PURE	(CAS-No.) 28523-79-7 (Unlabeled)	0.0013	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Chronic 3, H412
O,O-DIETHYLPHOSPHOROTHIOATE, POTASSIUM SALT (DIETHYL-D10, 98%)	(CAS-No.) 5871-17-0 (Unlabeled)	0.0013	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
O,O-DIETHYLPHOSPHORODITHIOATE, POTASSIUM SALT (DIETHYL-D10, 98%)	(CAS-No.) 3454-66-8 (Unlabeled)	0.0013	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
O,O-DIMETHYLPHOSPHORODITHIOATE, POTASSIUM SALT (DIMETHYL-D6, 98%)	(CAS-No.) 16001-68-6 (Unlabeled)	0.0013	Acute Tox. 2 (Oral), H300 Acute Tox. 1 (Dermal), H310 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
	1 =	1	

Name	Product identifier	%	GHS-US classification
100% METHANOL UNLABELED	(CAS-No.) 67-56-1	99.9924	Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation:vapour), H331 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 1, H370

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

### **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

First-aid measures general : If medical advice is needed, have product container or label at hand. Call a physician

immediately. Evacuate danger area.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial

respiration. Call a doctor.

First-aid measures after skin contact : Rinse skin with water/shower. Take immediately victim to hospital. Remove/Take off immediately all contaminated clothing. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion

Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth.

Call a physician immediately.

### 4.2. Most important symptoms and effects, 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 medical 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 substance 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 measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

### 6.1.1. For non-emergency personnel

Emergency procedures : Avoid breathing vapors, mist, gas. Avoid dust formation.

### 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".

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### 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 containment and cleaning up

For containment : Clean up any spills

: Clean up any spills as soon as possible, using an absorbent material to collect it. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. For large spills, confine the spill in a dike and charge it with wet sand or container to the spills are spills.

earth for subsequent safe disposal.

Methods for cleaning up : This material and its container must be disposed of in a safe way, and as per local legislation.

#### 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 : Provide adequate ventilation to minimize dust and/or vapor concentrations.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work. Handle in accordance with good industrial hygiene and safety

practice.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Store in a well-ventilated place. Keep container tightly closed.

Storage conditions : Store in freezer (-20°C). Protect from light.

Incompatible materials : Heat sources.

### 7.3. Specific end use(s)

No additional information available

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

### 8.1. Control parameters

DIALKYL PHOSPHATE AND PHOSPHOROTHIOATE COCKTAIL (D, 98%) 10 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/m³)	260 mg/m³ Basis: NIOSH Recommended Exposure Limits
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 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/m³ 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/m³ 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)

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DIALKYL PHOSPHATE AND PHOSPHOROTHIOATE COCKTAIL (D, 98%) 10 UG/ML IN METHANOL		
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/m³)	260 mg/m³ Basis: NIOSH Recommended Exposure Limits
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 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/m³ 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/m³ 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.

DIALKYL PHOSPHATE AND PHOSPHOROTHIOATE COCKTAIL (D, 98%) 10 UG/ML IN METHANOL		
DNEL/DMEL (Workers)		
Acute - systemic effects, dermal	40 mg/kg bodyweight/day	
Acute - systemic effects, inhalation	260 mg/m³	
Acute - local effects, dermal	260 mg/cm <sup>2</sup>	
Long-term - systemic effects, dermal	40 mg/kg bodyweight/day	
Long-term - local effects, dermal	260 mg/cm <sup>2</sup>	
Long-term - local effects, inhalation	260 mg/m³	
DNEL/DMEL (General population)	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)		

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DIALKYL PHOSPHATE AND PHOSPHOROTHIOATE COCKTAIL (D, 98%) 10 UG/ML IN METHANOL	
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.

Personal protective equipment : Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.









Materials for protective clothing : Wear suitable protective clothing and gloves. Hand protection : Wear suitable protective clothing and gloves.

Eye protection : Wear eye protection. Chemical goggles or face shield with safety glasses.

Skin and body protection : Wear suitable protective clothing, gloves and eye/face protection.

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

Environmental exposure controls : Avoid release to the environment.

### **SECTION 9: Physical and chemical properties**

### **9.1.** Information on basic physical and chemical properties The properties listed below are for the solvent, the main component of this mixture.

Physical state : Liquid
Appearance : Liquid.
Molecular mass : 32.04 g/mol
Color : Colorless.
Odor : Pungent.

Odor threshold : No data available pH : 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

 $Vapor\ pressure \qquad \qquad :\ 130.3\ hPa\ (97.7\ mmHg)\ at\ 20\ ^{\circ}C\ (68\ ^{\circ}F);\ 169.27\ hPa\ (126.96\ mmHg)\ at\ 25\ ^{\circ}C\ (77\ ^{\circ}F)$ 

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)

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### 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

See storage and expiration date on CoA.

### 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

Specific target organ toxicity - repeated

exposure

Acute toxicity : Oral: Toxic if swallowed. Dermal: Toxic in contact with skin. Inhalation:vapour: Toxic if inhaled

Acute toxicity	: Oral: Toxic if swallowed. Dermal: Toxic in contact with skin. Inhalation:vapour: Toxic if inhaled.
DIALKYL PHOSPHATE AND PHOSPHOROT	HIOATE COCKTAIL (D, 98%) 10 UG/ML IN METHANOL
LD50 oral rat	1187 - 2769 mg/kg
LD50 dermal rabbit	17100 mg/kg
LC50 inhalation rat (mg/l)	128.2 mg/l/4h ; 87.6 mg/l - 6 h
ATE CLP (oral)	100.000 mg/kg body weight
ATE CLP (dermal)	300.000 mg/kg body weight
ATE CLP (vapors)	3.000 mg/l/4h
ATE CLP (dust, mist)	128.200 mg/l/4h
LDLO, oral, human	143 mg/kg Remarks: Lungs, Thorax, or Respiration: Dyspnea. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
100% METHANOL UNLABELED (67-56-1)	
LD50 oral rat	1187 - 2769 mg/kg
LD50 dermal rabbit	17100 mg/kg
LC50 inhalation rat (mg/l)	128.2 mg/l/4h ; 87.6 mg/l - 6 h
ATE CLP (oral)	100.000 mg/kg body weight
ATE CLP (dermal)	300.000 mg/kg body weight
ATE CLP (vapors)	3.000 mg/l/4h
ATE CLP (dust, mist)	128.200 mg/l/4h
LDLO, oral, human	143 mg/kg Remarks: Lungs, Thorax, or Respiration: Dyspnea. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
O,O-DIMETHYLPHOSPHORODITHIOATE, PO	DTASSIUM SALT (DIMETHYL-D6, 98%) (16001-68-6 (Unlabeled))
ATE CLP (oral)	5.000 mg/kg body weight
ATE CLP (dermal)	5.000 mg/kg body weight
Skin corrosion/irritation	: Skin. rabbit. Result: No skin irritation
Serious eye damage/irritation	: Eyes. rabbit. Result: No eye irritation
Respiratory or skin sensitization	: Maximisation Test . Guinea pig. Did not cause sensitization. (OECD 406 method)
Germ cell mutagenicity	: AMES test : S. tymphimurium. Result: negative. fibroblast. Result: Negative. Mutation in mammalian somatic cells. Mutagenicity (in vivo mammalian bone-marrow cystogenetic test, chromosomal analysis) - Mouse - male and female Result: negative. Mouse - male and female. Result: Negative
Carcinogenicity	: Not classified
Reproductive toxicity	: Damage to fetus not classifiable. Fertility classification not possible from current data.
Specific target organ toxicity – single exposure	: Causes damage to organs through prolonged or repeated exposure

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: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Causes damage to organs

No data available

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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.

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.	
DIALKYL PHOSPHATE AND PHOSPHOROTHIOATE COCKTAIL (D, 98%) 10 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	
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	
O,O-DIMETHYLPHOSPHOROTHIOATE, POTA	SSIUM SALT (DIMETHYL-D6, 98%) 97%+ PURE (28523-79-7 (Unlabeled))	
LC50 fish 1	100 mg/l - 96 h, Lepomis macrochirus -	
EC50 Daphnia 1	42.5 mg/l - 24 h, Daphnia magna (Water flea) -	
O,O-DIETHYLPHOSPHOROTHIOATE, POTASS	SIUM SALT (DIETHYL-D10, 98%) (5871-17-0 (Unlabeled))	
LC50 fish 1	100 mg/l Lepomis macrochirus - 96 h	
EC50 Daphnia 1	42.5 mg/l Daphnia magna (Water flea) - 24 h	
O,O-DIETHYLPHOSPHORODITHIOATE, POTASSIUM SALT (DIETHYL-D10, 98%) (3454-66-8 (Unlabeled))		
LC50 fish 1	100 mg/l Lepomis macrochirus - 96 h	
EC50 Daphnia 1	42.5 mg/l Daphnia magna (Water flea) - 24 h	
O,O-DIMETHYLPHOSPHORODITHIOATE, POTASSIUM SALT (DIMETHYL-D6, 98%) (16001-68-6 (Unlabeled))		
LC50 fish 1	100 mg/l - 96 h, Lepomis macrochirus -	
EC50 Daphnia 1	42.5 mg/l - 24 h. Daphnia magna (Water flea) -	

### 12.2. Persistence and degradability

DIALKYL PHOSPHATE AND PHOSPHOROTHIOATE COCKTAIL (D, 98%) 10 UG/ML IN METHANOL		
Biochemical oxygen demand (BOD)	600 - 1200 mg/g	
Chemical oxygen demand (COD)	1420 mg/g	
ThOD	1500 mg/g	
Biodegradation	72 % - rapidly biodegradable aerobic - Exposure time 5 d	
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	
O,O-DIMETHYLPHOSPHORIC ACID, POTASSIUM SALT (DIMETHYL-D6, 98%) (37919-86-1 (Unlabeled))		
Persistence and degradability	Not available.	
O,O-DIETHYLPHOSPHORIC ACID, POTASSIUM SALT (DIETHYL-D10, 98%) (53971-30-5 (Unlabeled))		
Persistence and degradability	Not available.	

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	SSIUM SALT (DIMETHYL-D6, 98%) 97%+ PURE (28523-79-7 (Unlabeled))	
Persistence and degradability	Not available.	
	SIUM SALT (DIETHYL-D10, 98%) (5871-17-0 (Unlabeled))	
Persistence and degradability	Not available.	
	SSIUM SALT (DIETHYL-D10, 98%) (3454-66-8 (Unlabeled))	
Persistence and degradability	Not available.	
·	ASSIUM SALT (DIMETHYL-D6, 98%) (16001-68-6 (Unlabeled))	
Persistence and degradability	Not available.	
12.3. Bioaccumulative potential		
	OATE COCKTAIL (D, 98%) 10 UG/ML IN METHANOL	
BCF fish 1	5 mg/l Cyprinus carpio (Carp) - 72 d at 20 °C	
Bioconcentration factor (BCF REACH)	1	
Log Pow	-0.77	
100% METHANOL UNLABELED (67-56-1)	5 m all O maticus servite (Open) 770 del 00 00	
BCF fish 1 Bioconcentration factor (BCF REACH)	5 mg/l Cyprinus carpio (Carp) - 72 d at 20 °C	
Log Pow	-0.77	
•		
Bioaccumulative potential	UM SALT (DIMETHYL-D6, 98%) (37919-86-1 (Unlabeled))  Not available.	
'		
Bioaccumulative potential	M SALT (DIETHYL-D10, 98%) (53971-30-5 (Unlabeled))  Not available.	
'		
·	SSIUM SALT (DIMETHYL-D6, 98%) 97%+ PURE (28523-79-7 (Unlabeled))	
Bioaccumulative potential	Not available.	
	SIUM SALT (DIETHYL-D10, 98%) (5871-17-0 (Unlabeled))	
Bioaccumulative potential	Not available.	
O,O-DIETHYLPHOSPHORODITHIOATE, POTASSIUM SALT (DIETHYL-D10, 98%) (3454-66-8 (Unlabeled))		
Bioaccumulative potential	Not available.	
O,O-DIMETHYLPHOSPHORODITHIOATE, POTASSIUM SALT (DIMETHYL-D6, 98%) (16001-68-6 (Unlabeled))		
Bioaccumulative potential	Not available.	
12.4. Mobility in soil		
	OATE COCKTAIL (D, 98%) 10 UG/ML IN METHANOL	
Ecology - soil	Not degradable in the soil.	
100% METHANOL UNLABELED (67-56-1)		
Ecology - soil	Not degradable in the soil.	
	UM SALT (DIMETHYL-D6, 98%) (37919-86-1 (Unlabeled))	
Ecology - soil	Not available.	
	M SALT (DIETHYL-D10, 98%) (53971-30-5 (Unlabeled))	
Ecology - soil	Not available.	
O,O-DIMETHYLPHOSPHOROTHIOATE, POTA	SSIUM SALT (DIMETHYL-D6, 98%) 97%+ PURE (28523-79-7 (Unlabeled))	
Ecology - soil	Not available.	
O,O-DIETHYLPHOSPHOROTHIOATE, POTASSIUM SALT (DIETHYL-D10, 98%) (5871-17-0 (Unlabeled))		
Ecology - soil	Not available.	
O,O-DIETHYLPHOSPHORODITHIOATE, POTASSIUM SALT (DIETHYL-D10, 98%) (3454-66-8 (Unlabeled))		
Ecology - soil	Not available.	
O,O-DIMETHYLPHOSPHORODITHIOATE, POTASSIUM SALT (DIMETHYL-D6, 98%) (16001-68-6 (Unlabeled))		
Ecology - soil Not available.		
12.5. Results of PBT and vPvB assessment		
DIALKYL PHOSPHATE AND PHOSPHOROTHIOATE COCKTAIL (D, 98%) 10 UG/ML IN METHANOL		
PBT: not relevant – no registration required		
100% METHANOL UNLABELED (67-56-1)		
PBT: not relevant – no registration required		

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#### 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 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.

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 / ADN

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



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..... 178.275(d)(3)

TP2 - a. The maximum degree of filling must not exceed the degree of filling determined by the following: (image) Where: tr is the maximum mean bulk temperature during transport, tf is the temperature in degrees celsius of the liquid during filling, and a is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filling (tf) and the maximum mean bulk temperature during transportation (tr) both in degrees celsius. b. For liquids transported under ambient conditions may be calculated using the formula: (image) Where: d15 and d50 are the densities (in units of mass per unit volume) of the liquid at 15 C (59 F) and 50 C (122 F), respectively.

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) :1

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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 : 1 L

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 60 L

CFR 175.75)

Civil Aeronautics Law : Flammable liquids

14.4. Environmental hazards

Other information : No supplementary information available.

14.5. Special precautions for user

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

Not applicable

### **SECTION 15: Regulatory information**

### 15.1. US Federal regulations

DIALKYL PHOSPHATE AND PHOSPHOROTHIOATE COCKTAIL (D, 98%) 10 UG/ML IN METHANOL				
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	ERCLA 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

### DIALKYL PHOSPHATE AND PHOSPHOROTHIOATE COCKTAIL (D, 98%) 10 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

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### 15.3. US State regulations

DIALKYL PHOSPHATE AND PHOSPHOROTHIOATE COCKTAIL (D, 98%) 10 UG/ML IN METHANOL()						
U.S California - Proposition	n 65 - Carcinogens List	N	lo			
U.S California - Proposition Toxicity	tion 65 - Developmental		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 U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations U.S Massachusetts - Right To Know List U.S Pennsylvania - RTK (Right to Know) List U.S New Jersey - Right to Know Hazardous Substance List U.S New York - Reporting of Releases Part 597 - List of Hazardous Substances				
100% METHANOL UNLABELED (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)	

Reproductive Toxicity -

Female

No

### 100% METHANOL UNLABELED (67-56-1)

### State or local regulations

Carcinogens List

No

- U.S. Delaware Pollutant Discharge Requirements Reportable Quantities
- U.S. Idaho Non-Carcinogenic Toxic Air Pollutants Acceptable Ambient Concentrations

**Developmental Toxicity** 

- 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

Yes

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.

Reproductive Toxicity -

Male

No

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

A suite tendedte (demonst) Onto som d			
Acute toxicity (dermal) Category 1			
Acute toxicity (oral) Category 2			
Acute toxicity (dermal) Category 3			
Acute toxicity (inhalation:vapour) Category 3			
Acute toxicity (oral) Category 3			
Hazardous to the aquatic environment - Acute Hazard Category 1			
Hazardous to the aquatic environment - Chronic Hazard Category 1			
Hazardous to the aquatic environment - Chronic Hazard Category 3			
Serious eye damage/eye irritation Category 2			
Flammable liquids Category 2			
Skin corrosion/irritation Category 2			
Specific target organ toxicity (single exposure) Category 1			
Specific target organ toxicity (single exposure) Category 3			
Highly flammable liquid and vapor			
Fatal if swallowed			
Toxic if swallowed			
Fatal in contact with skin			
Toxic in contact with skin			
Causes skin irritation			
Causes serious eye irritation			
Toxic if inhaled			
May cause respiratory irritation			
Causes damage to organs			
Very toxic to aquatic life			

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H410	Very toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects
R11	Highly flammable
R27/28	Very toxic in contact with skin and if swallowed
R36/37	Irritating to eyes and respiratory system
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
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
F	Highly flammable
N	Dangerous for the environment
Т	Toxic
T+	Very toxic
Xi	Irritant

NFPA health hazard : 2 - Materials that, under emergency conditions, can cause

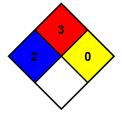
temporary incapacitation or residual injury.

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 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

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