

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: 31/10/2016 Revision date: 28/01/2019 Supersedes: 27/08/2018 Version: 1.2 ES-5547-10X

SECTION 1 Identificati	on of the substance/mixture and of the company/undertaking
1.1. Product identifier	on of the substance/mixture and of the company/undertaking
Product form	: Mixtures
Product name	 DIALKYL PHOSPHATE AND PHOSPHOROTHIOATE COCKTAIL (D, 98%) 100 UG/ML IN METHANOL
Product code	: ES-5547-10X
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
ndustrial/Professional use spec	c : For professional use only
1.2.2. Uses advised again	st
No additional information availa	
1.3. Details of the suppl	ier of the safety data sheet
Cambridge Isotope Laboratorie 50 Frontage Road Andover, MA 01810 USA USA: 1-800-322-1174 Int: 1- cilsales@isotope.com www.i	
Emergency telepho	•
Emergency numbers:	
Chemtrec: 1-800-424-9300 (2 International: 1-703-741-5970	
SECTION 2: Hazards id	entification
	e substance or mixture
Classification according to R	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	r) H331
Skin Irrit. 2	H315
Eye Irrit. 2	H319
STOT SE 1	H370
Full text of hazard classes and	
Classification according to D F; R11 T; R39/23/24/25 Xi; R36/38	birective 67/548/EEC [DSD] or 1999/45/EC [DPD]
Full text of R-phrases: see sect	tion 16
GHS-US classification	
	H225
Flam. Liq. 2 Acute Tox. 3 (Oral) Acute Tox. 3 (Dermal)	H225 H301 H311

Acute Tox. 3 (Oral)H301Acute Tox. 3 (Dermal)H311Acute Tox. 3 (Inhalation:vapour)H331Skin Irrit. 2H315Eye Irrit. 2AH319STOT SE 1H370

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.

2.2. Label elements	
Labeling according to Regulation (EC) N	lo. 1272/2008 [CLP]
Hazard pictograms (CLP)	$\wedge \land \land$
	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)	
Signal word (GHS-US)	GHS02 GHS08 GHS06 : 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)
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 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

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
O,O-DIMETHYLPHOSPHORIC ACID, POTASSIUM SALT (DIMETHYL-D6, 98%)	(CAS-No.) 37919-86-1 (Unlabeled)	0.013	Not classified
O,O-DIETHYLPHOSPHORIC ACID, POTASSIUM SALT (DIETHYL-D10, 98%)	(CAS-No.) 53971-30-5 (Unlabeled)	0.013	Not classified
O,O-DIMETHYLPHOSPHOROTHIOATE, POTASSIUM SALT (DIMETHYL-D6, 98%) 97%+ PURE	(CAS-No.) 28523-79-7 (Unlabeled)	0.013	Xi; R36/37/38
O,O-DIETHYLPHOSPHOROTHIOATE, POTASSIUM SALT (DIETHYL-D10, 98%)	(CAS-No.) 5871-17-0 (Unlabeled)	0.013	Xi; R36/37/38
O,O-DIETHYLPHOSPHORODITHIOATE, POTASSIUM SALT (DIETHYL-D10, 98%)	(CAS-No.) 3454-66-8 (Unlabeled)	0.013	Xi; R36/37
O,O-DIMETHYLPHOSPHORODITHIOATE, POTASSIUM SALT (DIMETHYL-D6, 98%)	(CAS-No.) 16001-68-6 (Unlabeled)	0.013	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	99.987359	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
O,O-DIMETHYLPHOSPHORIC ACID, POTASSIUM SALT (DIMETHYL-D6, 98%)	(CAS-No.) 37919-86-1 (Unlabeled)	0.013	Not classified
O,O-DIETHYLPHOSPHORIC ACID, POTASSIUM SALT (DIETHYL-D10, 98%)	(CAS-No.) 53971-30-5 (Unlabeled)	0.013	Not classified
O,O-DIMETHYLPHOSPHOROTHIOATE, POTASSIUM SALT (DIMETHYL-D6, 98%) 97%+ PURE	(CAS-No.) 28523-79-7 (Unlabeled)	0.013	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)	0.013	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)	0.013	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)	0.013	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
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 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 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 measure	9S
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	e 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 m	neasures
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.

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5.1.2. For emergency resp			
Protective equipment	:	Do not attempt to take action with refer to section 8: "Exposure contr	out suitable protective equipment. For further information rols/personal protection".
.2. Environmental preca	autions		
revent entry to sewers and pul	blic waters. Do not	allow to enter drains or water course	es. Avoid release to the environment.
.3. Methods and materia	al for containment	t and cleaning up	
or containment	:	Dike and contain spill.	
lethods 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 resid	lues at an authorized site.
.4. Reference to other s	ections		
or further information refer to s	section 13.		
SECTION 7: Handling a	nd storage		
.1. Precautions for safe	handling		
dditional hazards when proces	sed :	Handle empty containers with care	e because residual vapors are flammable.
2. Conditions for safe	storage, including	any incompatibilities	
echnical measures	:	Keep container tightly closed in a	cool, dry and well-ventilated place.
Storage conditions	:	Store in freezer (-20°C). Protect fr	om light.
ncompatible materials	:	Heat sources.	
3. Specific end use(s)			
lo additional information availa	ble		
SECTION 8: Exposure c	ontrols/persor	nal protection	
.1. Control parameters			
	PHOSPHOROTHI	OATE COCKTAIL (D, 98%) 100 UC	
Italy - Portugal - USA ACGIH	ACGIH TWA (pp		200.00000000 ppm Basis: USA. ACGIH Threshold Limit Values (TLV)
Italy - Portugal - USA ACGIH	ACGIH STEL (pp	om)	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 (TW	A) (mg/m³)	260 mg/m ³ Basis: NIOSH Recommended Exposure Limits
USA NIOSH	NIOSH REL (TW	A) (ppm)	200 ppm Basis: NIOSH Recommended Exposure Limits
USA NIOSH	NIOSH REL (STI	EL) (mg/m³)	325 mg/m ³ Basis: NIOSH Recommended Exposure Limits
USA NIOSH	NIOSH REL (STI	EL) (ppm)	250 ppm Basis: NIOSH Recommended Exposure Limits
USA NIOSH	Remark (NIOSH))	Potential for dermal absorption.
USA OSHA	OSHA PEL (TWA	λ) (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	4) (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 (STE	L) (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)

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	1	IOATE COCKTAIL (D, 98%) 10		
USA OSHA	OSHA PEL (STE	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 (Cei	ling) (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 (pp	om)	200.00000000 ppm Basis: USA. ACGIH Threshold Limit Values (TLV)	
Italy - Portugal - USA ACGIH	ACGIH STEL (p	pm)	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 (TV	VA) (mg/m³)	260 mg/m ³ Basis: NIOSH Recommended Exposure Limits	
USA NIOSH	NIOSH REL (TV	VA) (ppm)	200 ppm Basis: NIOSH Recommended Exposure Limits	
USA NIOSH	NIOSH REL (ST	EL) (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)	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 (STE	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 (Cei	ling) (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	PHOSPHOROTH	IOATE COCKTAIL (D, 98%) 10	0 UG/ML IN METHANOL	
DNEL/DMEL (Workers)				
Acute - systemic effects, derm	al	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 populat	tion)			
Acute - systemic effects, derm	al	8 mg/kg body weight		
Acute - systemic effects, inhal	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

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DIALKYL PHOSPHATE AND PHOSPHOROTHIOATE COCKTAIL (D, 98%) 100 UG/ML IN METHANOL		
Long-term - systemic effects, inhalation	50 mg/m ³	
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	
9.2 Expedure controle		

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

smoking and when leaving work. : 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

The properties listed below are for the solvent, the main component of this mixture.Physical state: LiquidAppearance:: Liquid.Molecular mass:: 32.04 g/molColor:: Colorless.Odor:: Pungent.Odor threshold:: No data availablepH:: No data availableRelative evaporation rate (butyl acetate=1):: No data availableMeting point:: No data availableFreezing point:: No data availableBoiling point:: No data availableAuto-ignition temperature:: No data availableAuto-ignition temperature:: No data availableAuto-ignition temperature:: No data availablePrezong point:: No data availableAuto-ignition temperature:: No data availablePlamability (solid, gas):: No data availableVapor pressure at 50 °C:: No data availableVapor pressure at 50 °C:: 1.11Relative vapor density at 20 °C:: No data availableSolubility:: No data availableSolubility:: No data availableVapor pressure at 50 °C:: No data availableSolubility:: No data availableSolubility:: No data availableSolubility:: No data availableSolubility:: No data availableColor pressure at 50 °C:: 1.11Relative vapor density at 20 °C:: 1.11Relative vapor density / density:: No data availableSolubility:: No data available <tr <td=""><th>9.1. Information on basic physical and</th><th>chemical properties</th></tr> <tr><td>Appearance:Liquid.Molecular mass:32.04 g/molColor:Colorless.Odor:Pungent.Odor threshold:No data availablepH:No data availableRelative evaporation rate (butyl acetate=1):No data availableRelative evaporation rate (butyl acetate=1):No data availableBoiling point::No data availableBoiling point::No data availableBoiling point:::Yace (148.5 °F):::Flash point:::Auto-ignition temperature:::Parmability (solid, gas)::No data availableVapor pressure at 50 °C:::Vapor pressure at 50 °C:::Relative density at 20 °C:::Solubility::::Solubility::::Solubility::::Solubility::::Lig Pow::::Solubility::::Solubility::::Solubility::::Solubility::::Solubility::::Solubility<td:< td="">:::Solubility<td:< td="">:</td:<></td:<></td><td>The properties listed below are for the solvent, the main comp</td><td>onent of this mixture.</td></tr> <tr><td>No232.04 g/molColor:Colorless.Odor:Pungent.Odor threshold:No data availablepH:No data availableRelative evaporation rate (butyl acetate=1):No data availableBoiling point:::Freezing point:::Flash point:::Auto-ignition temperature:::Pecomposition temperature:::I and available:::Poor pressure at 50 °C:::Vapor pressure at 50 °C:::Relative vapor density at 20 °C:::Relative density::No data availableSpecific gravity / density:::Solubility::::Log Pow::::Log Pow::::Log Pow::::No data available:::Log Pow::::No data available:::Log Pow::::</td><td>Physical state</td><td>: Liquid</td></tr> <tr><td>Color: Colorless.Odor: Pungent.Odor threshold: No data availablepH: No data availableRelative evaporation rate (butyl acetate=1): No data availableMelting point: -98 °C (-144 °F)Freezing point: No data availableBoiling point: No data availableBoiling point: 97 °C (48.5 °F)Flash point: 97 °C (49.5 °F) - closed cupAuto-ignition temperature: 455 °C (851 °F) at 1,013 hPa (760 mmHg)Decomposition temperature: No data availableFlasm point: No data availableVapor pressure at 50 °C: No data availableRelative vapor density at 20 °C: 1.11Relative vapor density at 20 °C: 0.791 g/ml at 25 °C (77 °F)Solubility: No data availableSpecific gravity / density: 0.791 g/ml at 25 °C (77 °F)Solubility: Water: Completely miscibleLog Pow: 0.77</td><td>Appearance</td><td>: Liquid.</td></tr> <tr><td>Odor: Pungent.Odor threshold: No data availablepH: No data availableRelative evaporation rate (butyl acetate=1): No data availableMetting point: 98 °C (144 °F)Freezing point: No data availableBoiling point: 64.7 °C (148.5 °F)Flash point: 9.7 °C (49.5 °F) - closed cupAuto-ignition temperature: 455 °C (851 °F) at 1,013 hPa (760 mmHg)Decomposition temperature: No data availableFlammability (solid, gas): No data availableVapor pressure at 50 °C: No data availableVapor pressure at 50 °C: St6.6 hPa (410 mmHg) at 50 °C (122 °F)Relative vapor density at 20 °C: 1.11Relative density: No data availableSpecific gravity / density: 0.791 g/ml at 25 °C (77 °F)Solubility: 0.791 g/ml at 25 °C (77 °F)Solubility: 0.791 g/ml at 25 °C (77 °F)Solubility: 0.771 "</td><td>Molecular mass</td><td>: 32.04 g/mol</td></tr> <tr><td>Odor threshold: No data availablepH: No data availableRelative evaporation rate (butyl acetate=1): No data availableMelting point: -98 °C (-144 °F)Freezing point: No data availableBoiling point: 64.7 °C (148.5 °F)Flash point: 9.7 °C (49.5 °F) - closed cupAuto-ignition temperature: 455 °C (851 °F) at 1,013 hPa (760 mmHg)Decomposition temperature: No data availableFlammability (solid, gas): No data availableVapor pressure at 50 °C: 546.6 hPa (410 mmHg) at 20 °C (68 °F); 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9.1. Information on basic physical and	chemical properties																																																																												
Appearance:Liquid.Molecular mass:32.04 g/molColor:Colorless.Odor:Pungent.Odor threshold:No data availablepH:No data availableRelative evaporation rate (butyl acetate=1):No data availableRelative evaporation rate (butyl acetate=1):No data availableBoiling point::No data availableBoiling point::No data availableBoiling point:::Yace (148.5 °F):::Flash point:::Auto-ignition temperature:::Parmability (solid, gas)::No data availableVapor pressure at 50 °C:::Vapor pressure at 50 °C:::Relative density at 20 °C:::Solubility::::Solubility::::Solubility::::Solubility::::Lig Pow::::Solubility::::Solubility::::Solubility::::Solubility::::Solubility::::Solubility <td:< td="">:::Solubility<td:< td="">:</td:<></td:<>	The properties listed below are for the solvent, the main comp	onent of this mixture.																																																																											
No232.04 g/molColor:Colorless.Odor:Pungent.Odor threshold:No data availablepH:No data availableRelative evaporation rate (butyl acetate=1):No data availableBoiling point:::Freezing point:::Flash point:::Auto-ignition temperature:::Pecomposition temperature:::I and available:::Poor pressure at 50 °C:::Vapor pressure at 50 °C:::Relative vapor density at 20 °C:::Relative density::No data availableSpecific gravity / density:::Solubility::::Log Pow::::Log Pow::::Log Pow::::No data available:::Log Pow::::No data available:::Log Pow::::	Physical state	: Liquid																																																																											
Color: Colorless.Odor: Pungent.Odor threshold: No data availablepH: No data availableRelative evaporation rate (butyl acetate=1): No data availableMelting point: -98 °C (-144 °F)Freezing point: No data availableBoiling point: No data availableBoiling point: 97 °C (48.5 °F)Flash point: 97 °C (49.5 °F) - closed cupAuto-ignition temperature: 455 °C (851 °F) at 1,013 hPa (760 mmHg)Decomposition temperature: No data availableFlasm point: No data availableVapor pressure at 50 °C: No data availableRelative vapor density at 20 °C: 1.11Relative vapor density at 20 °C: 0.791 g/ml at 25 °C (77 °F)Solubility: No data availableSpecific gravity / density: 0.791 g/ml at 25 °C (77 °F)Solubility: Water: Completely miscibleLog Pow: 0.77	Appearance	: Liquid.																																																																											
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Odor threshold: No data availablepH: No data availableRelative evaporation rate (butyl acetate=1): No data availableMelting point: -98 °C (-144 °F)Freezing point: No data availableBoiling point: 64.7 °C (148.5 °F)Flash point: 9.7 °C (49.5 °F) - closed cupAuto-ignition temperature: 455 °C (851 °F) at 1,013 hPa (760 mmHg)Decomposition temperature: No data availableFlammability (solid, gas): No data availableVapor pressure at 50 °C: 546.6 hPa (410 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: 1.11Relative density: No data availableSpecific gravity / density: 0.791 g/ml at 25 °C (77 °F)Solubility: Water: Completely miscibleLog Pow: -0.77	Color	: Colorless.																																																																											
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Log Kow	Log Pow	: -0.77																																																																											
Lug Nuw : No data available	Log Kow	: No data available																																																																											
Viscosity, kinematic : No data available	Viscosity, kinematic	: No data available																																																																											

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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

6, 2012 / Rules and Regulations	
Viscosity, dynamic	: No data available
Explosive properties	: Product is not explosive.
Dxidizing properties	: Non oxidizing material according to EC criteria.
xplosion limits	: 6 - 36 % (V)
.2. Other information	
o additional information available	
ECTION 10: Stability and reacti	vity
0.1. Reactivity	
apors may form flammable mixture with ai	r. Highly flammable liquid and vapor.
0.2. Chemical stability	
see storage and expiration date on CoA.	
5	
0.3. Possibility of hazardous reaction	
lo dangerous reactions known under norm	
0.4. Conditions to avoid	
void contact with hot surfaces. Heat. No fl	ames, no sparks. Eliminate all sources of ignition.
0.5. Incompatible materials	
cid anhydrides. Acid chlorides. Oxidizing a	agent. Alkali Metal Amides. Reducing agents. Acids.
0.6. Hazardous decomposition proc	lucts
arbon oxides (CO, CO2).	
ECTION 11: Toxicological infor	mation
1.1. Information on toxicological ef	
cute toxicity	: Oral: Toxic if swallowed. Dermal: Toxic in contact with skin. Inhalation:vapour: Toxic if inhale
	ROTHIOATE COCKTAIL (D, 98%) 100 UG/ML IN METHANOL
LD50 oral rat	1187 - 2769 mg/kg
LD50 dermal rabbit	17100 mg/kg
LC50 inhalation rat (mg/l)	128.2 mg/l/4h ; 87.6 mg/l - 6 h
ATE CLP (oral)	100.000 mg/kg body weight
ATE CLP (dermal)	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.
	E, POTASSIUM 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
100% METHANOL UNLABELED (67-56- 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.
kin corrosion/irritation	: Skin. rabbit. Result: No skin irritation
erious eye damage/irritation	: Eyes. rabbit. Result: No eye irritation
espiratory 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.
2/04/0240	

EN (English US)

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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 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.

SECT	ON 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%) 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		
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, POTASSIUM 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	O,O-DIETHYLPHOSPHOROTHIOATE, POTASSIUM 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) -		
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

DIALKYL PHOSPHATE AND PHOSPHOROTHIOATE COCKTAIL (D, 98%) 100 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	
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.	
O,O-DIMETHYLPHOSPHOROTHIOATE, POTASSIUM SALT (DIMETHYL-D6, 98%) 97%+ PURE (28523-79-7 (Unlabeled))		
Persistence and degradability	Not available.	

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	SSIUM SALT (DIETHYL-D10, 98%) (5871-17-0 (Unlabeled))
Persistence and degradability	Not available.
O,O-DIETHYLPHOSPHORODITHIOATE, POT	TASSIUM SALT (DIETHYL-D10, 98%) (3454-66-8 (Unlabeled))
Persistence and degradability	Not available.
O,O-DIMETHYLPHOSPHORODITHIOATE, PO	DTASSIUM SALT (DIMETHYL-D6, 98%) (16001-68-6 (Unlabeled))
Persistence and degradability	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
12.3. Bioaccumulative potential	
DIALKYL PHOSPHATE AND PHOSPHOROT	HIOATE COCKTAIL (D, 98%) 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
•	SIUM SALT (DIMETHYL-D6, 98%) (37919-86-1 (Unlabeled))
Bioaccumulative potential	Not available.
•	
	IUM SALT (DIETHYL-D10, 98%) (53971-30-5 (Unlabeled))
Bioaccumulative potential	Not available.
	ASSIUM SALT (DIMETHYL-D6, 98%) 97%+ PURE (28523-79-7 (Unlabeled))
Bioaccumulative potential	Not available.
O,O-DIETHYLPHOSPHOROTHIOATE, POTA	SSIUM SALT (DIETHYL-D10, 98%) (5871-17-0 (Unlabeled))
Bioaccumulative potential	Not available.
O,O-DIETHYLPHOSPHORODITHIOATE, POT	ASSIUM SALT (DIETHYL-D10, 98%) (3454-66-8 (Unlabeled))
Bioaccumulative potential	Not available.
0,0-DIMETHYLPHOSPHORODITHIOATE, P	DTASSIUM SALT (DIMETHYL-D6, 98%) (16001-68-6 (Unlabeled))
O,O-DIMETHYLPHOSPHORODITHIOATE, PO Bioaccumulative potential	Not available.
Bioaccumulative potential	
	Not available.
Bioaccumulative potential 100% METHANOL UNLABELED (67-56-1)	
Bioaccumulative potential 100% METHANOL UNLABELED (67-56-1) BCF fish 1	Not available. 5 mg/l Cyprinus carpio (Carp) - 72 d at 20 °C
Bioaccumulative potential 100% METHANOL UNLABELED (67-56-1) BCF fish 1 Bioconcentration factor (BCF REACH) Log Pow	Not available. 5 mg/l Cyprinus carpio (Carp) - 72 d at 20 °C 1
Bioaccumulative potential 100% METHANOL UNLABELED (67-56-1) BCF fish 1 Bioconcentration factor (BCF REACH) Log Pow 12.4. Mobility in soil	Not available. 5 mg/l Cyprinus carpio (Carp) - 72 d at 20 °C 1 -0.77
Bioaccumulative potential 100% METHANOL UNLABELED (67-56-1) BCF fish 1 Bioconcentration factor (BCF REACH) Log Pow 12.4. Mobility in soil DIALKYL PHOSPHATE AND PHOSPHOROT	Not available. 5 mg/l Cyprinus carpio (Carp) - 72 d at 20 °C 1 -0.77
Bioaccumulative potential 100% METHANOL UNLABELED (67-56-1) BCF fish 1 Bioconcentration factor (BCF REACH) Log Pow 12.4. Mobility in soil DIALKYL PHOSPHATE AND PHOSPHOROT Ecology - soil	Not available. 5 mg/l Cyprinus carpio (Carp) - 72 d at 20 °C 1 -0.77 HIOATE COCKTAIL (D, 98%) 100 UG/ML IN METHANOL Not degradable in the soil.
Bioaccumulative potential 100% METHANOL UNLABELED (67-56-1) BCF fish 1 Bioconcentration factor (BCF REACH) Log Pow 12.4. Mobility in soil DIALKYL PHOSPHATE AND PHOSPHOROT Ecology - soil 0,0-DIMETHYLPHOSPHORIC ACID, POTAS	Not available. 5 mg/l Cyprinus carpio (Carp) - 72 d at 20 °C 1 -0.77 HIOATE COCKTAIL (D, 98%) 100 UG/ML IN METHANOL Not degradable in the soil. SIUM SALT (DIMETHYL-D6, 98%) (37919-86-1 (Unlabeled))
Bioaccumulative potential 100% METHANOL UNLABELED (67-56-1) BCF fish 1 Bioconcentration factor (BCF REACH) Log Pow 12.4. Mobility in soil DIALKYL PHOSPHATE AND PHOSPHOROT Ecology - soil 0,0-DIMETHYLPHOSPHORIC ACID, POTAS Ecology - soil	Not available. 5 mg/l Cyprinus carpio (Carp) - 72 d at 20 °C 1 -0.77 HIOATE COCKTAIL (D, 98%) 100 UG/ML IN METHANOL Not degradable in the soil. SIUM SALT (DIMETHYL-D6, 98%) (37919-86-1 (Unlabeled)) Not available.
Bioaccumulative potential 100% METHANOL UNLABELED (67-56-1) BCF fish 1 Bioconcentration factor (BCF REACH) Log Pow 12.4. Mobility in soil DIALKYL PHOSPHATE AND PHOSPHOROT Ecology - soil 0,0-DIMETHYLPHOSPHORIC ACID, POTASS Ecology - soil 0,0-DIETHYLPHOSPHORIC ACID, POTASS	Not available. 5 mg/l Cyprinus carpio (Carp) - 72 d at 20 °C 1 -0.77 HIOATE COCKTAIL (D, 98%) 100 UG/ML IN METHANOL Not degradable in the soil. SIUM SALT (DIMETHYL-D6, 98%) (37919-86-1 (Unlabeled)) Not available. UM SALT (DIETHYL-D10, 98%) (53971-30-5 (Unlabeled))
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Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

100% METHANOL UNLABELED (67-56-1)	
PBT: not relevant – no registration required	
12.6. Other adverse effects	
Other adverse effects Other information	 Avoid release to the environment. Stability in water: at 19 °C - (83 - 91%) - 72 h. Remarks: Hydrolyses on contact with water. Hydrolyses readily.
SECTION 13: Disposal consideration	15
13.1. Waste treatment methods	
Regional legislation (waste)	: Waste materials should be disposed of under conditions which meet Federal, State, and local environmental control regulations.
Product/Packaging disposal recommendations	: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.
Ecology - waste materials	: Dispose of as unused product.
SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / IATA / Al 14.1. UN number	DN
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
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

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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

26, 2012 / Rules and Regulations	
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
A factor and	
Air transport	. 41
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	. 16
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, Bogulatory information	
SECTION 15: Regulatory information	
15.1. US Federal regulations	
	HIOATE COCKTAIL (D, 98%) 100 UG/ML IN METHANOL
Listed on the United States TSCA (Toxic Substa	
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 Substa	ances 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

 DIALKYL PHOSPHATE AND PHOSPHOROTHIOATE COCKTAIL (D, 98%) 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

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

15.3. US State regulations	i			
DIALKYL PHOSPHATE AM	ND PHOSPHOROTHIOATE (COCKTAIL (D, 98%) 100 UG/M	L 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 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 UNLAB	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	
100% METHANOL UNLAB	ELED (67-56-1)			
State or local regulations				
U.S Idaho - Non-Carcinog U.S Massachusetts - Righ U.S Pennsylvania - RTK (nt To Know List	cceptable Ambient Concentratio	ns	

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

SECTION 16: 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:

Other information

Acute Tox. 1 (Dermal)	Acute toxicity (dermal) Category 1
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
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard 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
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
H319	Causes serious eye irritation
H331	Toxic if inhaled
H335	May cause respiratory irritation
H370	Causes damage to organs
H400	Very toxic to aquatic life

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

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