

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: 25/02/2022 Revision date: : Version: 1.0 DLM-11378-S

SECTION 1: Identification	of the substance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Mixtures
Product name	: 2-HYDROXYETHYL BIS(2-BUTOXYETHYL)PHOSPHATE (D4, 97%) (CP 97%) 100 UG/ML IN ACETONITRILE
Product code	: DLM-11378-S
1.2. Relevant identified uses	of the substance or mixture and uses advised against
1.2.1. Relevant identified uses	i de la constante d
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 o	f the safety data sheet
Cambridge Isotope Laboratories, In 50 Frontage Road Andover, MA 01810 USA	
USA: 1-800-322-1174 Int: 1-978- cilsales@isotope.com www.isoto	
Emergency telephone n	umber
Emergency numbers:	
Chemtrec: 1-800-424-9300 (24 ho International: 1-703-741-5970 (24	
SECTION 2: Hazards identi	ification
2.1. Classification of the sub	ostance or mixture
Classification according to Regul	lation (EC) No. 1272/2008 [CLP]
Flam. Liq. 2 H225	
Acute Tox. 4 (Oral) H302	
Acute Tox. 4 (Dermal) H312	
Acute Tox. 4 (Inhalation:gas) H332	
Eye Irrit. 2 H319	
Full text of hazard classes and H-sta	atements : see section 16
	tive 67/548/EEC [DSD] or 1999/45/EC [DPD]
F; R11 Xn; R20/21/22 Xi; R36	
Full text of R-phrases: see section 1	6
GHS-US classification	
Flam. Liq. 2H225Acute Tox. 4 (Oral)H302Acute Tox. 4 (Dermal)H312Acute Tox. 4 (Inhalation)H332Eye Irrit. 2H319	

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

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1272/2008 [CLP]
GHS02 GHS07
: Danger
: ACETONITRILE UNLABELED
 H225 - Highly flammable liquid and vapor H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled H319 - Causes serious eye irritation
 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 - Keep container tightly closed. P240 - Ground/bond container and receiving equipment. P241 - Use explosion-proof electrical, ventilating, lighting equipment P261 - Avoid breathing dust, gas, fume, mist, spray, vapors. P264 - Wash Both hands thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P271 - Use only outdoors or in a well-ventilated area.
GHS02 GHS07
: Danger
 H225 - Highly flammable liquid and vapor H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled H319 - Causes serious eye irritation
 P210 - Keep away from heat, hot surfaces, open flames, sparks No smoking. P233 - Keep container tightly closed. P240 - Ground/Bond container and receiving equipment P241 - Use explosion-proof electrical, ventilating, lighting equipment P242 - Use only non-sparking tools. P243 - Take precautionary measures against static discharge. P261 - Avoid breathing dust, fume, gas, mist, spray, vapors. P264 - Wash Both hands 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+P312 - If swallowed: Call a poison center or doctor if you feel unwell 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+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P312 - Call a poison center or doctor if you feel unwell P322 - Specific treatment (see supplemental first aid instruction on this label) P330 - Rinse mouth. P337+P313 - If eye irritation persists: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse. P370+P378 - In case of fire: Use Alcohol resistant foam, Carbon dioxide, Dry chemical, Water spray to extinguish.

P501 - Dispose of contents/container to Comply with applicable regulations

2.3. Other hazards

No additional information available

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SECTION 3: Composition/Information on ingredients

3.1. **Substances**

Mixtures

Not applicable 32

3.2. Mixtures			
Name	Product identifier	%	Classification according to Directive 67/548/EEC
ACETONITRILE UNLABELED	(CAS-No.) 75-05-8 (EC-No.) 200-835-2 (EC Index-No.) 608-001-00-3 (REACH-no) 01-2119471307-38	99.987	F; R11 Xi; R36 Xn; R20/21/22
2-HYDROXYETHYL BIS(2-BUTOXYETHYL)PHOSPHATE (D4, 97%) (CP 97%)	(CAS-No.) 2469195-92-2	0.013	Xi; R36 Xi; R37 Xi; R38
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
ACETONITRILE UNLABELED	(CAS-No.) 75-05-8 (EC-No.) 200-835-2 (EC Index-No.) 608-001-00-3 (REACH-no) 01-2119471307-38	99.987	Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Eye Irrit. 2, H319
2-HYDROXYETHYL BIS(2-BUTOXYETHYL)PHOSPHATE (D4, 97%) (CP 97%)	(CAS-No.) 2469195-92-2	0.013	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
Name	Product identifier	%	GHS-US classification
ACETONITRILE UNLABELED	(CAS-No.) 75-05-8	99.987	Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Eye Irrit. 2A, H319
2-HYDROXYETHYL BIS(2-BUTOXYETHYL)PHOSPHATE (D4, 97%) (CP 97%)	(CAS-No.) 2469195-92-2	0.013	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335

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

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
First-aid measures after inhalation	 Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
First-aid measures after skin contact	: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Immediately call a poison center or doctor/physician. Specific measures (see Hazard pictograms (CLP) on this label). Wash with plenty of soap and water. Wash contaminated clothing before reuse.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.
First-aid measures after ingestion	: Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.
4.2. Most important symptoms and effe	cts, both acute and delayed
Symptoms/effects after inhalation	: Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled.
Symptoms/effects after skin contact	: Repeated exposure to this material can result in absorption through skin causing significant health hazard. Harmful in contact with skin.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: Swallowing a small quantity of this material will result in serious health hazard. Harmful if swallowed.

Indication of any immediate medical attention and special treatment needed 4.3.

No additional information available

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

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5.2. Special hazards arising from the s	ubstance or mixture		
Fire hazard	: Highly flammable liquid and vapor.		
Explosion hazard	: May form flammable/explosive vapor-air mixture.		
Reactivity	: Vapors may form explosive mixture with air.		
5.3. Advice for firefighters			
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.		
SECTION 6: Accidental release mea	asures		
6.1. Personal precautions, protective e	equipment and emergency procedures		
General measures	: Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.		
6.1.1. For non-emergency personnel			
No additional information available			
6.1.2. For emergency responders			
No additional information available			
6.2. Environmental precautions			
	so. Do not let product enter drains. Discharge into the environment must be avoided.		
6.3. Methods and material for containn			
For containment	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 earth for subsequent safe disposal.		
6.4. Reference to other sections			
No additional information available			
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. Use only outdoors or in a well- ventilated area. Avoid breathing dust, mist or spray.		
Hygiene measures	: Do not eat, drink or smoke when using this product. Wash Both hands thoroughly after handling.		
7.2. Conditions for safe storage, include	Jing 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			
SECTION 8: Exposure controls/per	sonal protection		
8.1. Control parameters			
No additional information available			
8.2. Exposure controls			
Personal protective equipment	: Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.		
Hand protection	: Wear suitable protective clothing and gloves.		
Eye protection	: Wear safety glasses with side shields (or goggles) and a face shield.		
Skin and body protection	: Wear suitable protective clothing.		
Respiratory protection	: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.		

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SECTION 9: Physical and chemical p	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, clear.		
Molecular mass	: 41.05 g/mol		
Color	: Colorless.		
Odor	: ether-like.		
Odor threshold	: No data available		
рН	: No data available		
Relative evaporation rate (butyl acetate=1)	: No data available		
Melting point	: -48 °C (-54°F)		
Freezing point	: No data available		
Boiling point	: 81 - 82 °C (178 - 180 °F)		
Flash point	: 2 °C (35.6 °F) - closed cup		
Auto-ignition temperature	: 523 °C (973 °F)		
Decomposition temperature	: No data available		
Flammability (solid, gas)	: Highly flammable liquid and vapor		
Vapor pressure	: 73.18 hPa (54.89 mmHg) at 15°C (59 °F), 119.81 hPa (89.86 mmHg) at 25°C(77 °F)		
Relative vapor density at 20 °C	: 1.42 - (Air = 1.0)		
Relative density	: No data available		
Specific gravity / density	: 0.786 g/ml		
Solubility	: Water: 100 %		
Log Pow	: -0.34		
Log Kow	: No data available		
Viscosity, kinematic	: No data available		
Viscosity, dynamic	: No data available		
Explosive properties	: No data available		
Oxidizing properties	: No data available		
Explosion limits	: 4.4 - 16 vol %		
9.2. Other information			
No additional information available			
SECTION 10: Stability and reactivity			
10.1. Reactivity			
Vapors may form explosive mixture with air.			
10.2. Chemical stability			
See storage and expiration date on CoA.			
10.3. Possibility of hazardous reactions			
Highly flammable liquid and vapor.			
10.4. Conditions to avoid			
Heat. Open flame. Direct sunlight. Sparks. Extremely high or low temperatures.			
10.5. Incompatible materials			
Acids, Bases, Oxidizing agents, Reducing agents, Alkali metals.			
10.6. Hazardous decomposition products			
May release flammable gases. Carbon oxides (CO, CO2). Nitrogen oxides.			
SECTION 11: Toxicological information			
11.1. Information on toxicological effects			
Acute toxicity : Oral: Harmful if swallowed. Dermal: Harmful in contact with skin. Inhalation:gas: Harmful if inhaled.			
2-HYDROXYETHYL BIS(2-BUTOXYETHYL)PHOSPHATE (D4, 97%) (CP 97%) 100 UG/ML IN ACETONITRILE			

LD50 oral rat

LD50 dermal rabbit

2460 mg/kg

2000 mg/kg

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2-HYDROXYETHYL BIS(2-BUTOXYETHYL)PI	HOSPHATE (D4, 97%) (CP 97%) 100 UG/ML IN ACETONITRILE	
LC50 inhalation rat (mg/l)	≥ 26.8 mg/l	
LC50 inhalation rat (ppm)	7551 ppm - 8h	
ATE CLP (oral)	500.000 mg/kg body weight	
ATE CLP (dermal)	2000.000 mg/kg body weight	
ATE CLP (gases)	4500.000 ppmV/4h	
ATE CLP (vapors)	26.800 mg/l/4h	
ATE CLP (dust, mist)	26.800 mg/l/4h	
ACETONITRILE UNLABELED (75-05-8)		
LD50 oral rat	2460 mg/kg	
LD50 dermal rabbit	2000 mg/kg	
LC50 inhalation rat (mg/l)	≥ 26.8 mg/l	
LC50 inhalation rat (ppm)	7551 ppm - 8h	
ATE CLP (oral)	500.000 mg/kg body weight	
ATE CLP (dermal)	2000.000 mg/kg body weight	
ATE CLP (gases)	4500.000 ppmV/4h	
ATE CLP (vapors)	11.000 mg/l/4h	
ATE CLP (dust, mist)	1.500 mg/l/4h	
Skin corrosion/irritation	: Not classified	
	Skin	
	rabbit	
	No skin irritation	
Serious eye damage/irritation	: Causes serious eye irritation.	
	rabbit	
	Eyes	
	Irritating to eyes	
Respiratory or skin sensitization	: Did not cause sensitization on laboratory animals. Buehler Test - guinea pig - Did not cause sensitization on laboratory animals. (OECD 406 method)	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: No evidence of carcinogenicity in animal studies (when indicated).	
Reproductive toxicity	: Animal testing did not show any effects on fertility.	
Specific target organ toxicity – single exposure	: Not classified	
	The substance or mixture is not classified as specific target organ toxicant.	
Specific target organ toxicity - repeated	: Not classified	
exposure	The substance or mixture is not classified as specific target organ toxicant.	
Aspiration hazard	: Not classified	
Potential Adverse human health effects and	: Treat as cyanide poisoning. Always have on hand a cyanide first-aid kit, together with proper	
symptoms	Theat as cyalide positing. Always have off hand a cyalide instraid kit, together with proper instructions. The onset of symptoms is generally delayed pending conversion to cyanide. Nausea, Vomiting, Diarrhea, Headache, Dizziness, Rash, Cyanosis, Excitement, Depression, Drowsiness, Impaired judgment, Lack of coordination, Stupor, Death. Lungs - Lung edema - Based on human evidence. Harmful if swallowed. Harmful in contact with skin. 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.	
Symptoms/effects after inhalation	: Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled.	
Symptoms/effects after skin contact	: Repeated exposure to this material can result in absorption through skin causing significant health hazard. Harmful in contact with skin.	
Symptoms/effects after eye contact	: Causes serious eye irritation.	
Symptoms/effects after ingestion	: Swallowing a small quantity of this material will result in serious health hazard. Harmful 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.
2-HYDROXYETHYL BIS(2-BUTOXYETHYL)PH	OSPHATE (D4, 97%) (CP 97%) 100 UG/ML IN ACETONITRILE
LC50 fish 1	1640 mg/l Pimephales promelas (fathead minnow) - 96h

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2-HYDROXYETHYL BIS(2-BUTOXYETHYL)PHOSPHATE (D4, 97%) (CP 97%) 100 UG/ML IN ACETONITRILE		
EC50 Daphnia 1 3600 mg/l Daphnia magna (Water flea) - 48h		
NOEC (chronic)	640 mg/I Daphnia magna (Water flea) - 14d	
ACETONITRILE UNLABELED (75-05-8)		
LC50 fish 1	1640 mg/l Pimephales promelas (fathead minnow) - 96h	
EC50 Daphnia 1	3600 mg/l Daphnia magna (Water flea) - 48h	
NOEC (chronic)	640 mg/I Daphnia magna (Water flea) - 14d	

12.2. Persistence and degradability		
2-HYDROXYETHYL BIS(2-BUTOXYETHYL)PH	OSPHATE (D4, 97%)	(CP 97%) 100 UG/ML IN ACETONITRILE
Persistence and degradability	Biodegradability	Result: - Readily biodegradable.
ACETONITRILE UNLABELED (75-05-8)		
Persistence and degradability	Biodegradability	Result: - Readily biodegradable.
12.3. Bioaccumulative potential		
2-HYDROXYETHYL BIS(2-BUTOXYETHYL)PH	OSPHATE (D4, 97%)	(CP 97%) 100 UG/ML IN ACETONITRILE
Log Pow	-0.34	
Bioaccumulative potential	No bioaccumulation	is to be expected (log Pow <= 4).
ACETONITRILE UNLABELED (75-05-8)		
Log Pow	-0.34	
Bioaccumulative potential	No bioaccumulation is to be expected (log Pow <= 4).	
12.4. Mobility in soil		
2-HYDROXYETHYL BIS(2-BUTOXYETHYL)PH	OSPHATE (D4, 97%)	(CP 97%) 100 UG/ML IN ACETONITRILE
Ecology - soil	Not expected to absorb on soil.	
ACETONITRILE UNLABELED (75-05-8)		
Ecology - soil	Not expected to absorb on soil.	
12.5. Results of PBT and vPvB assessment		
No additional information available		
12.6. Other adverse effects		
Other adverse effects :		environment. Disposal must be done according to official regulations. May armful effects to aquatic life.

SECTION 13: Disposal consideratio	ns
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	: Dispose of contents/container to Comply with applicable regulations.
Additional information	: Handle empty containers with care because residual vapors are flammable.
Ecology - waste materials	: Dispose of as unused product.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / AD	DN .
14.1. UN number	
UN-No.(DOT)	: 1648
DOT NA no.	UN1648
14.2. UN proper shipping name	
Proper Shipping Name (DOT)	: Acetonitrile
Class (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Hazard labels (DOT)	: 3 - Flammable liquid
	FLAMMABLE LOUID
Packing group (DOT)	: II - Medium Danger

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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	
Other information	: No supplementary information available.
Overland transport	
Packing group (ADR)	: 11
Class (ADR)	: 3 - Flammable liquid
Hazard identification number (Kemler No.)	: 33
Classification code (ADR)	: F1
Hazard labels (ADR)	: 3 - Flammable liquids
Orange plates	33
	<u>1648</u>
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" or 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 guarters"
MFAG-No	: 127
Air transport	
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 5L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 60 L
14.4. Environmental hazards	
Other information	: No supplementary information available.

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SECTION 15: Regulatory information		
15.1. US Federal regulations		
2-HYDROXYETHYL BIS(2-BUTOXYETHYL)PHOSPHATE (D4, 97%) (CP 97%) 100 UG/ML IN ACETONITRILE		
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of 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	
ACETONITRILE UNLABELED (75-05-8)		
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of 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	
2-HYDROXYETHYL BIS(2-BUTOXYETHYL)PHOSPHATE (D4, 97%) (CP 97%) (2469195-92-2)		
Not listed on the United States TSCA (Toxic Substances Control Act) inventory		

15.2. International regulations

CANADA

2-HYDROXYETHYL BIS(2-BUTOXYETHYL)PHOSPHATE (D4, 97%) (CP 97%) 100 UG/ML IN ACETONITRILE

Listed on the Canadian DSL (Domestic Substances List)

15.2.1. National regulations

2-HYDROXYETHYL BIS(2-BUTOXYETHYL)PHOSPHATE (D4, 97%) (CP 97%) (2469195-92-2)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

15.3. US State regulations

2-HYDROXYETHYL BIS(2-BUTOXYETHYL)PHOSPHATE (D4, 97%) (CP 97%) 100 UG/ML IN ACETONITRILE()		
U.S California - Proposition 65 - Carcinogens List	No	
U.S California - Proposition 65 - Developmental Toxicity	No	
U.S California - Proposition 65 - Reproductive Toxicity - Female	No	
U.S California - Proposition 65 - Reproductive Toxicity - Male	No	
State or local regulations	RTK - U.S Massachusetts - Right To Know List RTK - U.S New Jersey - Right to Know Hazardous Substance List RTK - U.S Pennsylvania - RTK (Right to Know) List	
ACETONITRILE UNLABELED (75-05-8)		

	(
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	No	No	No	
2-HYDROXYETHYL BIS(2-BUTOXYETHYL)PHOSPHATE (D4, 97%) (CP 97%) (2469195-92-2)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	No	No	No	

ACETONITRILE UNLABELED (75-05-8)

State or local regulations

RTK - U.S. - Massachusetts - Right To Know List

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ACETONITRILE UNLABELED (75-05-8)

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

SECTION 16: Other information

Other information

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

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

Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
Acute Tox. 4 (Inhalation:gas)	Acute toxicity (inhalation:gas) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
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 3	Specific target organ toxicity (single exposure) Category 3
H225	Highly flammable liquid and vapor
H302	Harmful if swallowed
H312	Harmful in contact with skin
H315	Causes skin irritation
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
R11	Highly flammable
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed
R36	Irritating to eyes
R37	Irritating to respiratory system
R38	Irritating to skin
F	Highly flammable
Xi	Irritant
Xn	Harmful

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