

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 1/27/2023 Version: 1.0

SECTION 1: Identification

1.1. Identification

Product form : Mixture

Product name : BIS(2-BUTOXYETHYL) 3-HYDROXYL-2-BUTOXYETHYL PHOSPHATE (UNLABELED) 100

UG/ML IN ACETONITRILE

Product code : ULM-11399-S

1.2. Recommended use and restrictions on use

No additional information available

1.3. Supplier

Cambridge Isotope Laboratories, Inc. 50 Frontage Rd

01810

ANDOVER, MA, 01810

USA

T 1-800-322-1174

cilsales@isotope.com - www.isotope.com

1.4. Emergency telephone number

Emergency number : 1-703-741-5970

Chemtrec 1-800-424-9300 24 hours

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Flammable liquids Category 2 H225 Highly flammable liquid and vapor

Acute toxicity (oral) Category 4 H302 Harmful if swallowed
Acute toxicity (dermal) Category 4 H312 Harmful in contact with skin

Acute toxicity (inhalation) Category 4 H332 Harmful if inhaled

Serious eye damage/eye irritation Category 2 H319 Causes serious eye irritation

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US) :





Signal word (GHS US) : Danger

Hazard statements (GHS US) : H225 - Highly flammable liquid and vapor

H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled

H319 - Causes serious eye irritation

Precautionary statements (GHS US) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking. heat, hot surfaces, open flames, sparks

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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+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.

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.

P403+P235 - Store in a well-ventilated place. Keep cool.

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

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

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
BIS(2-BUTOXYETHYL) 3-HYDROXYL-2-BUTOXYETHYL PHOSPHATE (UNLABELED)	CAS-No.: 1477494- 87-3	0.013	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Aquatic Acute 3, H402

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

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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 effects (acute and delayed)

Potential Adverse human health effects and symptoms: Treat as cyanide poisoning. Always have on hand a cyanide first-aid kit, together with proper symptoms 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.

4.3. Immediate medical attention and special treatment, if necessary

No additional information available

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

5.2. Specific hazards arising from the chemical

Fire hazard : Highly flammable liquid and vapor.

Explosion hazard : May form flammable/explosive vapor-air mixture.

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective 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

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3. Methods and material for containment and cleaning up

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, including 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 at room temperature away from light and moisture.

Incompatible materials

Heat sources.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

BIS(2-BUTOXYETHYL) 3-HYDROXYL-2-BUTOXYETHYL PHOSPHATE (UNLABELED) 100 UG/ML IN ACETONITRILE

No additional information available

ACETONITRILE UNLABELED (75-05-8)

USA - ACGIH - Occupational Exposure Limits

ACGIH OEL TWA [ppm] 20 ppm Lower Respiratory Tract irritation. Not classifiable as a human carcinogen.

USA - OSHA - Occupational Exposure Limits

OSHA PEL TWA [1] 70 mg/m3 The value in mg/m3 is approximate.

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ACETONITRILE UNLABELED (75-05-8)		
OSHA PEL TWA [2]	40 ppm The value in mg/m3 is approximate.	
USA - NIOSH - Occupational Exposure Limits		
NIOSH REL TWA 34 mg/m³ Forms Cyanide in the body.		
NIOSH REL TWA [ppm]	20 ppm Forms Cyanide in the body.	
BIS(2-BUTOXYETHYL) 3-HYDROXYL-2-BUTOXYETHYL PHOSPHATE (UNLABELED) (1477494-87-3)		
No additional information available		

8.2. Appropriate engineering controls

No additional information available

8.3. Individual protection measures/Personal protective equipment

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

Personal protective equipment symbol(s):









SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid Appearance Liquid, clear. Color Colorless Odor ether-like Odor threshold No data available рΗ 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

Relative evaporation rate (butyl acetate=1) : No data available

Flammability (solid, gas) : Highly flammable liquid and vapor.

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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
Density : 0.786 g/ml
Molecular mass : 41.05 g/mol
Solubility : Water: 100 %

Partition coefficient n-octanol/water (Log Pow) : -0.34

Auto-ignition temperature : 523 °C (973 °F)

Decomposition temperature : No data available

Viscosity, kinematic : No data available

Viscosity, dynamic : No data available

Explosion limits : 4.4 – 16 vol %

Explosive properties : No data available

Oxidizing properties : No data available

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.

Acute toxicity (dermal) : Harmful in contact with skin.

Acute toxicity (inhalation) : Harmful if inhaled.

BIS(2-BUTOXYETHYL) 3-HYDROXYL-2-BUTOXYETHYL PHOSPHATE (UNLABELED) 100 UG/ML IN ACETONITRILE		
LD50 oral rat 2460 mg/kg		
LD50 dermal rabbit 2000 mg/kg		
LC50 Inhalation - Rat ≥ 26.8 mg/l		

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BIS(2-BUTOXYETHYL) 3-HYDROXYL-2-BUT	OXYETHYL PHOSPHATE (UNLABELED) 100 UG/ML IN ACETONITRILE
LC50 Inhalation - Rat [ppm]	7551 ppm - 8h
ATE US (oral)	500 mg/kg body weight
ATE US (dermal)	2000 mg/kg body weight
ATE US (gases)	4500 ppmV/4h
ATE US (vapors)	11 mg/l/4h
ATE US (dust, mist)	1.5 mg/l/4h
ACETONITRILE UNLABELED (75-05-8)	
LD50 oral rat	2460 mg/kg
LD50 dermal rabbit	2000 mg/kg
LC50 Inhalation - Rat	≥ 26.8 mg/l
LC50 Inhalation - Rat [ppm]	7551 ppm - 8h
ATE US (oral)	500 mg/kg body weight
ATE US (dermal)	2000 mg/kg body weight
ATE US (gases)	4500 ppmV/4h
ATE US (vapors)	11 mg/l/4h
ATE US (dust, mist)	1.5 mg/l/4h
	OXYETHYL PHOSPHATE (UNLABELED) (1477494-87-3)
ATE US (oral)	500 mg/kg body weight
, ,	: Not classified
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Potential Adverse human health effects and symptoms	: Treat as cyanide poisoning. Always have on hand a cyanide first-aid 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.

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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.

BIS(2-BUTOXYETHYL) 3-HYDROXYL-2-BUTOXYETHYL PHOSPHATE (UNLABELED) 100 UG/ML IN ACETONITRILE		
LC50 - Fish [1] 1640 mg/l Pimephales promelas (fathead minnow) - 96h		
EC50 - Crustacea [1] 3600 mg/l Daphnia magna (Water flea) - 48h		
NOEC (chronic) 640 mg/l Daphnia magna (Water flea) - 14d		
ACETONITRILE UNLABELED (75-05-8)		
LC50 - Fish [1]	1640 mg/l Pimephales promelas (fathead minnow) - 96h	
EC50 - Crustacea [1]	3600 mg/l Daphnia magna (Water flea) - 48h	
NOEC (chronic)	640 mg/l Daphnia magna (Water flea) - 14d	

12.2. Persistence and degradability

BIS(2-BUTOXYETHYL) 3-HYDROXYL-2-BUTOXYETHYL PHOSPHATE (UNLABELED) 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

BIS(2-BUTOXYETHYL) 3-HYDROXYL-2-BUTOXYETHYL PHOSPHATE (UNLABELED) 100 UG/ML IN ACETONITRILE		
Partition coefficient n-octanol/water (Log Pow) -0.34		
Bioaccumulative potential No bioaccumulation is to be expected (log Pow <= 4).		
ACETONITRILE UNLABELED (75-05-8)		
Partition coefficient n-octanol/water (Log Pow) -0.34		
Bioaccumulative potential No bioaccumulation is to be expected (log Pow <= 4).		

12.4. Mobility in soil

BIS(2-BUTOXYETHYL) 3-HYDROXYL-2-BUTOXYETHYL PHOSPHATE (UNLABELED) 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. Other adverse effects

Other adverse effects

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[:] Avoid release to the environment. Disposal must be done according to official regulations. May cause long lasting harmful effects to aquatic life.

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SECTION 13: Disposal considerations

13.1. Disposal 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.

: 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 DOT / TDG / IMDG / IATA

14.1. UN number

Additional information

DOT NA NO : UN1648 UN-No. (TDG) : UN1648 UN-No. (IMDG) : 1648 UN-No. (IATA) : 1648

14.2. UN proper shipping name

Proper Shipping Name (DOT) : Acetonitrile
Proper Shipping Name (TDG) : ACETONITRILE
Proper Shipping Name (IMDG) : ACETONITRILE
Proper Shipping Name (IATA) : Acetonitrile

14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT) : 3 Hazard labels (DOT) : 3



TDG

Transport hazard class(es) (TDG) : 3
Hazard labels (TDG) : 3



IMDG

Transport hazard class(es) (IMDG) : 3 Hazard labels (IMDG) : 3



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IATA

: 3 Transport hazard class(es) (IATA) Hazard labels (IATA) : 3



14.4. Packing group

Packing group (DOT) : 11 : II Packing group (TDG) Packing group (IMDG) : 11 Packing group (IATA) : 11

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

DOT

UN-No.(DOT) : UN1648

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) 150 202 DOT Packaging Non Bulk (49 CFR 173.xxx) 242 DOT Packaging Bulk (49 CFR 173.xxx) DOT Quantity Limitations Passenger aircraft/rail (49 : 5 L

CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49

CFR 175.75)

: 60 L

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"

UN-No. (TDG) : UN1648 **Explosive Limit and Limited Quantity Index** : 1L Excepted quantities (TDG) : E2 Passenger Carrying Road Vehicle or Passenger : 5 L

Carrying Railway Vehicle Index

Emergency Response Guide (ERG) Number : 127

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IMDG

Limited quantities (IMDG) : 1 L

Excepted quantities (IMDG) : E2

Packing instructions (IMDG) : P001

IBC packing instructions (IMDG) : IBC02

Tank instructions (IMDG) : T7

Tank special provisions (IMDG) : TP2

EmS-No. (Fire) : F-E - FIRE SCHEDULE Echo - NON-WATER-REACTIVE FLAMMABLE LIQUIDS

EmS-No. (Spillage) : S-D - SPILLAGE SCHEDULE Delta - FLAMMABLE LIQUIDS

Stowage category (IMDG) : B
Stowage and handling (IMDG) : SW2
Flash point (IMDG) : 2°C c.c.

Properties and observations (IMDG) : Colourless, volatile liquid. Flashpoint: 2°C c.c. Explosive limits: 3% to 16% Miscible with

water. When involved in a fire, evolves toxic cyanide fumes. Harmful if swallowed, by skin contact

or by inhalation.

MFAG-No : 127

IATA

PCA Excepted quantities (IATA) : E2 PCA Limited quantities (IATA) : Y341 PCA limited quantity max net quantity (IATA) : 1L PCA packing instructions (IATA) : 353 PCA max net quantity (IATA) : 5L : 364 CAO packing instructions (IATA) CAO max net quantity (IATA) : 60L ERG code (IATA) : 3L

14.7. 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

BIS(2-BUTOXYETHYL) 3-HYDROXYL-2-BUTOXYETHYL PHOSPHATE (UNLABELED) 100 UG/ML IN ACETONITRILE		
CERCLA RQ 5000 lb		
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard	

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

Name	CAS-No.	Listing	Commercial status	Flags
ACETONITRILE UNLABELED	75-05-8	Present	Active	
BIS(2-BUTOXYETHYL) 3-HYDROXYL-2- BUTOXYETHYL PHOSPHATE (UNLABELED)	1477494-87-3	Not present	-	

ACETONITRILE UNLABELED (75-05-8)

Subject to reporting requirements of United States SARA Section 313

Listed on EPA Hazardous Air Pollutant (HAPS)

CERCLA RQ 5000 lb

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ACETONITRILE UNLABELED (75-05-8)		
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard	

BIS(2-BUTOXYETHYL) 3-HYDROXYL-2-BUTOXYETHYL PHOSPHATE (UNLABELED) (1477494-87-3)		
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.	

15.2. International regulations

CANADA

ACETONITRILE UNLABELED (75-05-8)

Listed on the Canadian DSL (Domestic Substances List)

BIS(2-BUTOXYETHYL) 3-HYDROXYL-2-BUTOXYETHYL PHOSPHATE (UNLABELED) (1477494-87-3)

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

EU-Regulations

No additional information available

National regulations

BIS(2-BUTOXYETHYL) 3-HYDROXYL-2-BUTOXYETHYL PHOSPHATE (UNLABELED) 100 UG/ML IN ACETONITRILE

CAUTION: This material is supplied for research and development purposes subject to the R&D exemption under TSCA, 40 CFR 720.36, and must meet the requirements of the exemption, including supervision by a "technically qualified individual" as defined by 40 CFR 720.3(ee). The use of this material for "commercial purposes" as defined by 40 CFR 720.3(r) is not permitted in the United States.

ACETONITRILE UNLABELED (75-05-8)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

BIS(2-BUTOXYETHYL) 3-HYDROXYL-2-BUTOXYETHYL PHOSPHATE (UNLABELED) (1477494-87-3)

CAUTION: This material is supplied for research and development purposes subject to the R&D exemption under TSCA, 40 CFR 720.36, and must meet the requirements of the exemption, including supervision by a "technically qualified individual" as defined by 40 CFR 720.3(ee). The use of this material for "commercial purposes" as defined by 40 CFR 720.3(r) is not permitted in the United States.

Listed on TECI (Thailand Existing Chemicals Inventory)

15.3. US State regulations

BIS(2-BUTOXYETHYL) 3-HYDROXYL-2-BUTOXYETHYL PHOSPHATE (UNLABELED) 100 UG/ML IN ACETONITRILE		
	U.S Massachusetts - Right To Know List U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) List	

Component	State or local regulations
` '	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List

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Component	State or local regulations
BIS(2-BUTOXYETHYL) 3-HYDROXYL-2- BUTOXYETHYL PHOSPHATE (UNLABELED)(1477494-87-3)	U.S Pennsylvania - RTK (Right to Know) List; U.S New Jersey - Right to Know Hazardous Substance List

SECTION 16: Other information

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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 H-phrases	
H225	Highly flammable liquid and vapor
H302	Harmful if swallowed
H312	Harmful in contact with skin
H319	Causes serious eye irritation
H332	Harmful if inhaled
H402	Harmful to aquatic life

Safety Data Sheet (SDS), USA

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.