

### 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: 09/12/2015 Revision date: 14/03/2019 Supersedes: 09/12/2015 Version: 1.1

DLM-9070-S

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

1.1. Product identifier

Product form : Mixtures

Product name : TRIPHENYL PHOSPHATE (D15, 98%) 1 MG/ML IN ACETONITRILE

Product code : DLM-9070-S

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

1.2.1. Relevant identified uses

Main use category : Professional use

Industrial/Professional use spec : For professional use only

#### 1.2.2. Uses advised against

No additional information available

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

Cambridge Isotope Laboratories, Inc.

50 Frontage Road Andover, MA 01810

USA

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

#### **Emergency telephone number**

Emergency numbers:

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

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

#### 2.1. Classification of the substance or mixture

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

Flam. Liq. 2 H225
Acute Tox. 4 (Oral) H302
Acute Tox. 4 (Dermal) H312
Acute Tox. 4 (Inhalation) H332
Eye Irrit. 2 H319

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

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

F; R11 Xn; R20/21/22

Xi; R36

Full text of R-phrases: see section 16

#### **GHS-US** classification

Flam. Liq. 2 H225 Acute Tox. 4 (Oral) H302 Acute Tox. 4 (Dermal) H312 Acute Tox. 4 (Inhalation) H332 Eve Irrit. 2A H319

Full text of H statements : see section 16

#### Adverse physicochemical, human health and environmental effects

Lungs, Blood, Kidney, Liver, Central nervous system.

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#### Label elements

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

Hazard pictograms (CLP)





Signal word (CLP)

Hazard statements (CLP) 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 (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 equipment

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.

#### **GHS-US** labeling

Signal word (GHS-US)

Hazard pictograms (GHS-US)



GHS02



GHS07

: 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, open flames, sparks. - No smoking.

P233 - Keep container tightly closed.

P240 - Ground/Bond container and receiving equipment

P241 - Use explosion-proof electrical 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

P321 - Specific treatment (see Hazard pictograms (CLP) 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 Use personal protective equipment as required. to extinguish. P403+P235 - Store in a well-ventilated place. Keep cool.

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

#### Other hazards

No additional information available

### **SECTION 3: Composition/Information on ingredients**

Not applicable

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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	99.8728	F; R11 Xi; R36 Xn; R20/21/22
TRIPHENYL PHOSPHATE (D15, 98%)	(CAS-No.) 1173020-30-8 (EC-No.) 204-112-2	0.1272	N; R50/53
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	99.8728	Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Eye Irrit. 2, H319
TRIPHENYL PHOSPHATE (D15, 98%)	(CAS-No.) 1173020-30-8	0.1272	Aquatic Acute 1 H400

Name	Product identifier	%	GHS-US classification
ACETONITRILE UNLABELED	(CAS-No.) 75-05-8	99.8728	Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Eye Irrit. 2A, H319

(EC-No.) 204-112-2

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

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

4.4	December (1999)	and Charles and a	
4.1.	Description	of first aid	I measures

First-aid measures general

: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Evacuate area.

Aquatic Chronic 1, H410

First-aid measures after inhalation

Move the affected person away from the contaminated area and into the fresh air. If not breathing, give artificial respiration. Call a physician immediately. Get immediate medical advice latentics.

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

Immediately rinse with water for a prolonged period while holding the eyelids wide open. Get immediate medical advice/attention.

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, both acute and delayed

Symptoms/effects after inhalation

: Harmful if inhaled. May cause respiratory irritation.

Symptoms/effects after skin contact Symptoms/effects after eye contact : Harmful in contact with skin.: Causes serious eye irritation.

Symptoms/effects after ingestion : Harmful if swallowed.

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

No additional information available

#### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard

: Highly flammable liquid and vapor.

Explosion hazard Reactivity

: May form flammable/explosive vapor-air mixture.: Vapors may form explosive mixture with air.

#### 5.3. Advice for firefighters

Firefighting instructions

: Fight fire with normal precautions from a reasonable distance. Wear a self contained breathing apparatus. Do not enter fire area without proper protective equipment, including respiratory

Protection during firefighting

: Do not enter fire area without proper protective equipment, including respiratory protection. Wear recommended personal protective equipment.

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Other information : Use water spray to cool unopened containers.

#### **SECTION 6: Accidental release measures**

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

General measures

: Remove ignition sources. Use special care to avoid static electric charges. No open flames. No

smokina.

#### 6.1.1 For non-emergency personnel

**Emergency procedures** 

: Use personal protective equipment as required. Avoid breathing vapors, mist, gas. Ensure adequate air ventilation. Evacuate unnecessary personnel. Eliminate all ignition sources if safe to do so. Provide adequate ventilation to minimize dust and/or vapor concentrations. Special attention should be given to low areas/pits where flammable vapors can accumulate.

#### 6.1.2. For emergency responders

Protective equipment

: For further information refer to section 8: "Exposure controls/personal protection".

#### **Environmental precautions**

Prevent entry to sewers and public waters. Do not allow to enter drains or water courses. Avoid release to the environment.

#### Methods and material for containment and cleaning up

For containment

: Dike and contain spill. Disposal should be in accordance with applicable Federal, State and local regulations.

: Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or

Methods for cleaning up

Collect spillage. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. This material and its container must be disposed of in a safe way, and as per local legislation.

#### Reference to other sections

No additional information available

#### **SECTION 7: Handling and storage**

#### Precautions for safe handling

Additional hazards when processed

: Handle empty containers with care because residual vapors are flammable.

Precautions for safe handling

Hygiene measures

: No open flames. No smoking. Use only non-sparking tools.

smoke when using this product. Wash hands, forearms and face thoroughly after handling.

Conditions for safe storage, including any incompatibilities : Store at room temperature away from light and moisture. Storage conditions

Incompatible materials : Heat sources.

#### Specific end use(s)

No additional information available

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

#### **Control parameters** 8.1.

TRIPHENYL PHOSPHATE (D15, 98%) 1 MG/ML IN ACETONITRILE				
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	20.0000000 ppm Lower Respiratory Tract irritation. Not classifiable as a human carcinogen.		
ACETONITRILE UNLABELED	) (75-05-8)			
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	20.00000000 ppm Lower Respiratory Tract irritation. Not classifiable as a human carcinogen.		
USA NIOSH	NIOSH REL (TWA) (mg/m³)	34 mg/m³ Forms Cyanide in the body.		
USA NIOSH	NIOSH REL (TWA) (ppm)	20 ppm Forms Cyanide in the body.		
USA OSHA	OSHA PEL (TWA) (mg/m³)	70 mg/m³ The value in mg/m3 is approximate.		
USA OSHA	OSHA PEL (TWA) (ppm)	40 ppm The value in mg/m3 is approximate.		
TRIPHENYL PHOSPHATE (D15, 98%) (1173020-30-8)				
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m³)	3 mg/m³ Remark: Not classifiable as a human carcinogen. Cholinesterase inhibition.		
USA OSHA	OSHA PEL (TWA) (mg/m³)	3 mg/m³ Remark: Not classifiable as a human carcinogen. Cholinesterase inhibition.		

#### **Exposure controls**

Appropriate engineering controls : Handle in accordance with good industrial hygiene and safety procedures.

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Skin and body protection

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





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

Hand protection : Wear suitable protective clothing and gloves.

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

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

Respiratory protection : Where exposure through inhalation may occur from use, respiratory protection equipment is

recommended.

Environmental exposure controls : Avoid release to the environment.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

The properties listed below are for the solvent, the main component of this mixture.

Physical state : Liquid

Appearance : Liquid, clear.

Molecular mass : 41.05 g/mol

Color : Colorless.

Odor : ether-like.

Odor threshold : No data available
pH : 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)

: 4.4 - 16 vol %

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

#### 9.2. Other information

No additional information available

#### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

**Explosion limits** 

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

Open flame. Direct sunlight.

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#### 10.5. Incompatible materials

Acids, Bases, Oxidizing agents, Reducing agents, Alkali metals.

#### 10.6. Hazardous decomposition products

May release flammable gases.

#### **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

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

TRIPHENYL PHOSPHATE (D15, 98%) 1 MG/ML IN ACETONITRILE	
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)	1100.000 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

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

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TRIPHENYL PHOSPHATE (D15, 98%) (1173020-30-8)	
LD50 oral rat	> 20000 mg/kg
LD50 dermal rabbit	> 7900 mg/kg

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

exposure

: Not classified

The substance or mixture is not classified as specific target organ toxicant.

Aspiration hazard : Not classified

Potential Adverse human health effects and

symptoms

: Harmful if swallowed. Harmful in contact with skin.

Symptoms/effects after inhalation : Harmful if inhaled. May cause respiratory irritation. Symptoms/effects after skin contact : Harmful in contact with skin.

Symptoms/effects after eye contact : Causes serious eye irritation.
Symptoms/effects after ingestion : Harmful if swallowed.

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SECTION 12: Ecological information		
12.1. Toxicity		
TRIPHENYL PHOSPHATE (D15, 98%) 1 MG/ML IN ACETONITRILE		
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/l 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/l Daphnia magna (Water flea) - 14d	
TRIPHENYL PHOSPHATE (D15, 98%) (117302	0-30-8)	
LC50 fish 1	0.87 mg/l Pimephales promelas (fathead minnow) - 96 h	
	1 mg/l Daphnia magna (Water flea) - 48 h	
EC50 Daphnia 1		
ErC50 (algae)	1 mg/l Desmodesmus subspicatus (green algae) - 72 h	
· · · · · · · · · · · · · · · · · · ·	1 mg/l Desmodesmus subspicatus (green algae) - 72 h 1 mg/l Desmodesmus subspicatus (green algae) - 72 h	
ErC50 (algae) LOEC (acute)		
ErC50 (algae) LOEC (acute)  12.2. Persistence and degradability	1 mg/l Desmodesmus subspicatus (green algae) - 72 h	
ErC50 (algae) LOEC (acute)  12.2. Persistence and degradability TRIPHENYL PHOSPHATE (D15, 98%) 1 MG/M	1 mg/l Desmodesmus subspicatus (green algae) - 72 h  L IN ACETONITRILE	
ErC50 (algae) LOEC (acute)  12.2. Persistence and degradability TRIPHENYL PHOSPHATE (D15, 98%) 1 MG/M Persistence and degradability	1 mg/l Desmodesmus subspicatus (green algae) - 72 h	
ErC50 (algae) LOEC (acute)  12.2. Persistence and degradability TRIPHENYL PHOSPHATE (D15, 98%) 1 MG/MI Persistence and degradability ACETONITRILE UNLABELED (75-05-8)	1 mg/l Desmodesmus subspicatus (green algae) - 72 h  L IN ACETONITRILE  Biodegradability Result: - Readily biodegradable.	
ErC50 (algae)  LOEC (acute)  12.2. Persistence and degradability  TRIPHENYL PHOSPHATE (D15, 98%) 1 MG/MI  Persistence and degradability  ACETONITRILE UNLABELED (75-05-8)  Persistence and degradability	1 mg/l Desmodesmus subspicatus (green algae) - 72 h  L IN ACETONITRILE  Biodegradability Result: - Readily biodegradable.  Biodegradability Result: - Readily biodegradable.	
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ErC50 (algae)  LOEC (acute)  12.2. Persistence and degradability  TRIPHENYL PHOSPHATE (D15, 98%) 1 MG/MI Persistence and degradability  ACETONITRILE UNLABELED (75-05-8) Persistence and degradability  TRIPHENYL PHOSPHATE (D15, 98%) (117302 Persistence and degradability  12.3. Bioaccumulative potential  TRIPHENYL PHOSPHATE (D15, 98%) 1 MG/MI	1 mg/l Desmodesmus subspicatus (green algae) - 72 h  L IN ACETONITRILE  Biodegradability Result: - Readily biodegradable.  Biodegradability Result: - Readily biodegradable.  0-30-8)  No data available.  L IN ACETONITRILE	
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TRIPHENYL PHOSPHATE (D15, 98%) (1173020	0-30-8)
Log Pow	4.6

4.6

#### **Mobility in soil**

TRIPHENYL PHOSPHATE (D15, 98%) 1 MG/MI	TRIPHENYL PHOSPHATE (D15, 98%) 1 MG/ML IN ACETONITRILE	
Ecology - soil	Not expected to absorb on soil.	
ACETONITRILE UNLABELED (75-05-8)		
Ecology - soil	Not expected to absorb on soil.	
TRIPHENYL PHOSPHATE (D15, 98%) (1173020-30-8)		

#### Ecology - soil

No data available.

### Results of PBT and vPvB assessment

No additional information available

#### 12.6. Other adverse effects

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

#### **SECTION 13: Disposal considerations**

#### Waste treatment methods

Regional legislation (waste) : Waste materials should be disposed of under conditions which meet Federal, State, and local

environmental control regulations.

: Dispose of contents/container to hazardous or special waste collection point, in accordance Product/Packaging disposal recommendations

with local, regional, national and/or international regulation.

Additional information : Handle empty containers with care because residual vapors are flammable.

: Dispose of as unused product. Ecology - waste materials

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#### **SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

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



Packing group (DOT) : II - Medium Danger

DOT Special Provisions (49 CFR 172.102) : IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110

kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized.

T7 - 4 178.274(d)(2) Normal..... 178.275(d)(3)

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

DOT Packaging Exceptions (49 CFR 173.xxx) : 150
DOT Packaging Non Bulk (49 CFR 173.xxx) : 202
DOT Packaging Bulk (49 CFR 173.xxx) : 242

#### 14.3. Additional information

Other information : No supplementary information available.

#### **Overland transport**

Packing group (ADR) : II

Class (ADR) : 3 - Flammable liquid

Hazard identification number (Kemler No.) : 33 Classification code (ADR) : F1

Hazard labels (ADR) : 3 - Flammable liquids



Orange plates



Tunnel restriction code (ADR) : D/E
Limited quantities (ADR) : 11
EAC : •2YE
Excepted quantities (ADR) : E2

#### Transport by sea

DOT Vessel Stowage Location : B - (i)

: 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.

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DOT Vessel Stowage Other : 40 - Stow "clear of living quarters"

MFAG-No : 127

Air transport

DOT Quantity Limitations Passenger aircraft/rail : 5L

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 60 L

CFR 175.75)

Civil Aeronautics Law : Flammable liquids

14.4. Environmental hazards

Other information : No supplementary information available.

14.5. Special precautions for user

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

Not applicable

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

#### 15.1. US Federal regulations

TRIPHENYL PHOSPHATE (D15, 98%) 1 MG/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	

#### 15.2. International regulations

#### CANADA

#### TRIPHENYL PHOSPHATE (D15, 98%) 1 MG/ML IN ACETONITRILE

Listed on the Canadian DSL (Domestic Substances List)

#### 15.2.1. National regulations

No additional information available

#### 15.3. US State regulations

TRIPHENYL PHOSPHATE (D15, 98%) 1 MG/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	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	

ACETONITRILE UNLABELED (75-05-8)					
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level	
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)	
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -		
		Female	Male		

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ACETONITRILE UNLABELED (75-05-8)					
No	No	No	No		
ACETONITRILE UNLABELED (75-05-8)					

#### 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

#### **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:

1910 51 11 1 11 1 1 1 1 1 1 1 1 1 1 1 1 1				
Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4			
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4			
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4			
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1			
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1			
Eye Irrit. 2	Serious eye damage/eye irritation Category 2			
Flam. Liq. 2	Flammable liquids Category 2			
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			
H400	Very toxic to aquatic life			
H410	Very toxic to aquatic life with long lasting effects			
R11	Highly flammable			
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed			
R36	Irritating to eyes			
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			
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

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