

# Safety Data Sheet

according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 /

Rules and Regulations

Date of issue: 02/12/2015 Revision date: : Version: 1.0

DLM-9313-S

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

1.1. Product identifier

Product form : Mixtures

Product name. : TRIS(2-CHLOROETHYL)PHOSPHATE (D12, 98%) 100 UG/ML IN ACETONITRILE

Product code : DLM-9313-S

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

1.2.1. Relevant identified uses

Industrial/Professional use spec : For professional use only.

Industrial.

### 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 <a href="mailto:cilsales@isotope.com">cilsales@isotope.com</a> 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:dust,mist)
 H332

 Eye Irrit. 2
 H319

Full text of H-phrases: see section 16

### Classification according to Directive 67/548/EEC or 1999/45/EC

F; R11

Xn; R20/21/22 Xi; R36

Full text of R-phrases: see section 16

### Classification (GHS-US)

 Flam. Liq. 2
 H225

 Acute Tox. 4 (Oral)
 H302

 Acute Tox. 4 (Dermal)
 H312

 Acute Tox. 4 (Inhalation:dust,mist)
 H332

 Eye Irrit. 2A
 H319

### Adverse physicochemical, human health and environmental effects

No additional information available

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### **Label elements**

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

Hazard pictograms (CLP)





Signal word (CLP) : Danger

: ACETONITRILE UNLABELED Hazardous ingredients

H225 - Highly flammable liquid and vapor Hazard statements (CLP)

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

smokina

P233 - Keep container tightly closed

P240 - Ground/bond container and receiving equipment

P241 - Use explosion-proof electrical, lighting, ventilating equipment

P261 - Avoid breathing dust, fume, gas, mist, spray, vapors P264 - Wash Both hands thoroughly after handling

P270 - Do no 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

: 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, lighting, ventilating 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 no 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/physician if you feel unwell

P302+P352 - IF ON SKIN: Wash with plenty of soap and water

P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated

clothing. Rinse skin with water/shower

P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position 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/doctor/physician if you feel unwell

P321 - Specific treatment (see Hazard pictograms (CLP) on this label)

P330 - If swallowed, 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 Carbon dioxide., Dry chemical., Alcohol resistant foam., Water

spray for extinction

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

P501 - Dispose of contents/container to Dispose in a safe manner in accordance with

local/national regulations.

### Other hazards

No additional information available

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

### 3.1. Substances

Not applicable

### 3.2. Mixtures

J.Z. WIIALUI 65	1		
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	99.987	F; R11 Xi; R36 Xn; R20/21/22
TRIS(2-CHLOROETHYL)PHOSPHATE (D12, 98%) substance listed as REACH Candidate (Tris(2-chloroethyl)phosphate)	(CAS No) 115-96-8 (Unlabeled) (EC no) 204-118-5 (Listed as REACH Candidate) (EC index no) 015-102-00-0	0.013	Carc.Cat.3; R40 Repr.Cat.1; R60 Repr.Cat.1; R61 Xn; R22 N; R51/53
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	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
TRIS(2-CHLOROETHYL)PHOSPHATE (D12, 98%) substance listed as REACH Candidate (Tris(2-chloroethyl)phosphate)	(CAS No) 115-96-8 (Unlabeled) (EC no) 204-118-5 (Listed as REACH Candidate) (EC index no) 015-102-00-0	0.013	Acute Tox. 4 (Oral), H302 Carc. 2, H351 Repr. 1B, H360F Aquatic Chronic 2, H411
Name	Product identifier	%	Classification (GHS-US)
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

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

# **SECTION 4: First aid measures**

4.1.	Description	of first aid	measures
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First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Assure fresh air breathing. Allow the victim to rest. Remove to fresh air and keep at rest in a

position comfortable for breathing. Call a POISON CENTER/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 First aid measures 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/doctor/physician if you feel unwell. Do NOT induce vomiting. Obtain emergency medical attention.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : Danger of serious damage to health by prolonged exposure through inhalation. Harmful if

Symptoms/injuries after skin contact : Repeated exposure to this material can result in absorption through skin causing significant

health hazard. Harmful in contact with skin.

Symptoms/injuries after eye contact : Causes serious eye damage.

Symptoms/injuries after ingestion : Swallowing a small quantity of this material will result in serious health hazard.

### 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 : Carbon dioxide. Alcohol resistant foam. Dry chemical. Water spray. Foam. Dry powder. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

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

Fire hazard : Highly flammable liquid and vapor.

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

### 5.3. Advice for firefighters

Firefighting instructions : Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be

safe. Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Avoid (reject) fire-fighting water to enter environment.

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

### **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 naked lights. No

smoking

## 6.1.1. For non-emergency personnel

Emergency procedures : Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after

handling the product. Evacuate unnecessary personnel.

### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

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

For containment : Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable,

closed containers for disposal.

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect

spillage. Store away from other materials.

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

### **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 naked lights. No smoking. Use only non-sparking tools. Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Provide good

ventilation in process area to prevent formation of vapor. Use only outdoors or in a well-

ventilated area. Avoid breathing dust, mist or spray.

Hygiene measures : Do no 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 products : Strong bases. strong acids.

Incompatible materials : Heat sources. Sources of ignition. Direct sunlight.

### 7.3. Specific end use(s)

No additional information available

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

### 8.1. Control parameters

ACETONITRILE UNLABELED (75-05-8)		
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	20.0000000000 ppm Lower Respiratory Tract irritation. Not classifiable as a human carcinogen.
USA OSHA	OSHA PEL (TWA) (ppm)	40.000000000 ppm
USA OSHA	OSHA PEL (STEL) (ppm)	60.000000000 ppm

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### 8.2. Exposure controls

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

unnecessary exposure.









Hand protection : Wear protective gloves.

Eye protection : Chemical goggles or safety glasses.

Respiratory protection : Wear approved mask.

Other information : When using, do not eat, drink or smoke.

### 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 Color : Colorless. : characteristic. Odor Odor threshold : No data available : No data available рΗ Relative evaporation rate (butyl acetate=1) : No data available : -48 °C (-54°F) Melting point Freezing point : No data available **Boiling point** : 81 - 82 °C (178 - 180 °F) : 2.0 °C (35.6 °F) - closed cup Flash point

Self 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
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
Explosive limits : 4.4 - 16 vol %

# 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

## 10.2. Chemical stability

See storage and expiration date on CoA.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Open flame. Direct sunlight. Extremely high or low temperatures.

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### Incompatible materials

strong acids. Strong bases.

#### 10.6. **Hazardous decomposition products**

May release flammable gases. fume. Carbon monoxide. Carbon dioxide.

## **SECTION 11: Toxicological information**

### Information on toxicological effects

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

TRIS(2-CHLOROETHYL)PHOSPHATE (D12, 98%) 100 UG/ML IN ACETONITRILE		
ATE (oral)	500.000 mg/kg body weight	
ATE (dermal)	1100.000 mg/kg body weight	
ATE (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 (oral)	500.000 mg/kg body weight	
ATE (dermal)	2000.000 mg/kg body weight	
ATE (gases)	4500.000 ppmV/4h	
ATE (vapors)	11.000 mg/l/4h	
ATE (dust, mist)	1.500 mg/l/4h	

TRIS(2-CHLOROETHYL)PHOSPHATE (D12, 98%) (115-96-8 (Unlabeled))	
LD50 oral rat	1150 mg/kg
LC50 inhalation rat (mg/l)	> 5 mg/l 4 h
ATE (oral)	1150.000 mg/kg body weight

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Causes serious eye irritation. Causes serious eye damage

Respiratory or skin sensitization Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified Specific target organ toxicity (single exposure) : Not classified Specific target organ toxicity (repeated : Not classified

exposure)

Symptoms/injuries after skin contact

Aspiration hazard

: Not classified

Potential Adverse human health effects and

symptoms

: Harmful if swallowed. Harmful in contact with skin. Based on available data, the classification

criteria are not met. Harmful if inhaled.

Danger of serious damage to health by prolonged exposure through inhalation. Harmful if Symptoms/injuries after inhalation

Repeated exposure to this material can result in absorption through skin causing significant health hazard. Harmful in contact with skin.

Symptoms/injuries after eye contact : Causes serious eye damage.

Symptoms/injuries after ingestion : Swallowing a small quantity of this material will result in serious health hazard.

## **SECTION 12: Ecological information**

#### 12.1. Toxicity

: Toxic to aquatic life with long lasting effects. Ecology - water

ACETONITRILE UNLABELED (75-05-8)		
LC50 fish 1	1640.00 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		

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TRIS(2-CHLOROETHYL)PHOSPHATE (D12, 98%) (115-96-8 (Unlabeled))		
EC50 Daphnia 1	170 mg/l Daphnia magna (Water flea) - 48 h	
ErC50 (algae)	450 mg/l Psuedokirchneriella subcapitata - 72 h	

### 12.2. Persistence and degradability

TRIS(2-CHLOROETHYL)PHOSPHATE (D12, 98%) 100 UG/ML IN ACETONITRILE	
Persistence and degradability	May cause long-term adverse effects in the environment.

# **ACETONITRILE UNLABELED (75-05-8)**

7.02.10111111212120 (10.00.0)		
Persistence and degradability	Biodegradability	Result: - Readily biodegradable.

### 12.3. Bioaccumulative potential

TRIS(2-CHLOROETHYL)PHOSPHATE (D12, 98%) 100 UG/ML IN ACETONITRILE	
Log Pow	-0.34
Bioaccumulative potential	Not established.

ACETONITRILE UNLABE	LED (75-05-8)

Log Pow	-0.34
Bioaccumulative potential	No bioaccumulation is to be expected (log Pow <= 4).

## TRIS(2-CHLOROETHYL)PHOSPHATE (D12, 98%) (115-96-8 (Unlabeled))

Log Pow	1.7 at 20 °C (68 °F)

### 12.4. Mobility in soil

### **ACETONITRILE UNLABELED (75-05-8)**

Ecology - soil	Not expected to absorb on soil.

### TRIS(2-CHLOROETHYL)PHOSPHATE (D12, 98%) (115-96-8 (Unlabeled))

Ecology - soil Not available.

### 12.5. Results of PBT and vPvB assessment

### TRIS(2-CHLOROETHYL)PHOSPHATE (D12, 98%) (115-96-8 (Unlabeled))

This substance/mixture does not meet the PBT criteria of REACH, annex XIII.

This substance/mixture does not meet the vPvB criteria of REACH, annex XIII.

### 12.6. Other adverse effects

Other information : Avoid release to the environment.

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

## 13.1. Waste treatment methods

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

environmental control regulations.

Waste disposal recommendations : Dispose of contents/container to Dispose in a safe manner in accordance with local/national

regulations. Dispose in a safe manner in accordance with local/national regulations.

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

Ecology - waste materials : Avoid release to the environment.

# **SECTION 14: Transport information**

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

14.1. UN number

UN-No.(DOT) : 1648 DOT NA no. UN1648

14.2. UN proper shipping name

DOT Proper Shipping Name : Acetonitrile

Department of Transportation (DOT) Hazard :

Classes

: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

Hazard labels (DOT) : 3 - Flammable liquid



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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
Marine pollutant : No

### 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

Danger labels (ADR) : 3 - Flammable liquids



Orange plates

33 1648

Tunnel restriction code : D/E
Limited quantities (ADR) 1L
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 : 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.

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### 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

TRIS(2-CHLOROETHYL)PHOSPHATE (D12, 98%) 100 UG/ML IN ACETONITRILE	
Listed on SARA Section 313 (Specific toxic chemical listings)	
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard

ACETONITRILE	UNLABELED	(75-05-8)

Listed on SARA Section 313 (Specific toxic chemical listings)
SARA Section 311/312 Hazard Classes Fire hazard

Immediate (acute) health hazard Delayed (chronic) health hazard

### 15.2. International regulations

### **CANADA**

### TRIS(2-CHLOROETHYL)PHOSPHATE (D12, 98%) 100 UG/ML IN ACETONITRILE

Listed on the Canadian DSL (Domestic Substances List) inventory.

### **ACETONITRILE UNLABELED (75-05-8)**

Listed on the Canadian DSL (Domestic Substances List) inventory.

### 15.2.1. National regulations

No additional information available

## 15.3. US State regulations

TRIS(2-CHLOROETHYL)PHOSPHATE (D12, 98%) 100 UG/ML IN ACETONITRILE()	
State or local regulations	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
	This product does not contain any chemicals known to State of California to cause cancer,
	birth defects, or any other reproductive harm.

# **ACETONITRILE UNLABELED (75-05-8)**

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

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

# **SECTION 16: Other information**

Other information : None.

# 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:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Carc. 2	Carcinogenicity Category 2
Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Flam. Liq. 2	Flammable liquids Category 2
Repr. 1B	Reproductive toxicity Category 1B

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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
H351	Suspected of causing cancer
H360F	May damage fertility
H411	Toxic to aquatic life with long lasting effects
R11	Highly flammable
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed
R22	Harmful if swallowed
R36	Irritating to eyes
R40	Limited evidence of a carcinogenic effect
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R60	May impair fertility
R61	May cause harm to the unborn child
F	Highly flammable
N	Dangerous for the environment
Xi	Irritant
Xn	Harmful

NFPA health hazard

 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.

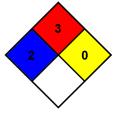
NFPA fire hazard

: 3 - Liquids and solids that can be ignited under almost all ambient conditions.

NFPA reactivity : 0 - Normally stab

: 0 - Normally stable, even under fire exposure conditions,

and are not reactive with water.



### **HMIS III 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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