

# 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: 05/01/2018 Revision date: 10/05/2018 Supersedes: 05/01/2018 Version: 1.1

DLM-10472-C

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

#### 1.1. Product identifier

Product form : Mixtures

Product name : ALDOSTERONE 97% CP (9,11,12,12-D4, 98%) 100 UG/ML IN ACETONITRILE

Product code : DLM-10472-C

#### 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

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:dust,mist) H332
Eye Irrit. 2 H319
Full text of H statements : see section 16

# Adverse physicochemical, human health and environmental effects

No additional information available

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#### 2.2 **Label elements**

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

Hazard pictograms (CLP)





GHS02

Signal word (CLP) : Danger

Hazardous ingredients : ACETONITRILE UNLABELED

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, lighting, ventilating equipment P261 - Avoid breathing dust, fume, spray, mist, gas, vapors P264 - Wash hands, forearms and face thoroughly after handling P270 - Do not eat, drink or smoke when using this product P271 - Use only outdoors or in a well-ventilated area

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

Hazard pictograms (GHS-US)





Signal word (GHS-US) : 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 hands, forearms and face thoroughly after handling P270 - Do not eat, drink or smoke when using this product

P271 - Use only outdoors or in a well-ventilated area

P280 - Wear eye protection, face protection, protective clothing, protective gloves

P301+P312 - If swallowed: Call a 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 doctor if you feel unwell

P322 - 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 alcohol resistant foam, carbon dioxide (CO2), dry

extinguishing powder to extinguish

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

P501 - Dispose of contents/container to hazardous or special waste collection point, in

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

#### Other hazards

No additional information available

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

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

| 3.2. Mixtures                           |  |        |  |
|---|--|--------|--|
| Name                                    | Product identifier   | %      | Classification according to<br>Directive 67/548/EEC  |
| ACETONITRILE UNLABELED                  | (CAS No) 75-05-8<br>(EC No) 200-835-2<br>(EC Index No) 608-001-00-3<br>(REACH-no) 01-2119471307-38 | 99.987 | F; R11<br>Xi; R36<br>Xn; R20/21/22   |
| ALDOSTERONE 97% CP (9,11,12,12-D4, 98%) | (CAS No) 1261254-31-2<br>(EC No) 200-139-9 (Unlabeled)   | 0.013  | Not classified   |
| Name                                    | Product identifier   | %      | Classification according to Regulation (EC) No. 1272/2008 [CLP]  |
| ACETONITRILE UNLABELED                  | (CAS No) 75-05-8<br>(EC No) 200-835-2<br>(EC Index No) 608-001-00-3<br>(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              |
| ALDOSTERONE 97% CP (9,11,12,12-D4, 98%) | (CAS No) 1261254-31-2<br>(EC No) 200-139-9 (Unlabeled)   | 0.013  | STOT SE 2, H371  |
| Name                                    | Product identifier   | %      | GHS-US classification  |
| ACETONITRILE UNLABELED                  | (CAS No) 75-05-8   | 99.987 | Flam. Liq. 2, H225<br>Acute Tox. 4 (Oral), H302<br>Acute Tox. 4 (Dermal), H312<br>Acute Tox. 4 (Inhalation), H332<br>Eye Irrit. 2A, H319 |
| ALDOSTERONE 97% CP (9,11,12,12-D4, 98%) | (CAS No) 1261254-31-2  | 0.013  | STOT SE 2, H371  |

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 : In case of accident or if you feel unwell, seek medical advice immediately (show the label

where possible).

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 : Immediately flush eyes thoroughly with water for at least 15 minutes. Call a physician immediately.

illinediate

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

inhaled.

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 irritation.

Symptoms/injuries after ingestion : Swallowing a small quantity of this material will result in serious health hazard. 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 : May form flammable/explosive vapor-air mixture.

Reactivity : Highly flammable liquid and vapor.

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#### 5.3. **Advice for firefighters**

Firefighting instructions : Wear a self contained breathing apparatus. Fight fire with normal precautions from a

reasonable distance.

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

# **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 smoking.

#### 6.1.1. For non-emergency personnel

: Avoid dust formation. Avoid breathing dust, vapors, mist, gas. Use personal protective **Emergency procedures** 

equipment as required. Ensure adequate air ventilation.

#### 6.1.2. For emergency responders

No additional information available

#### 6.2. **Environmental precautions**

Prevent entry to sewers and public waters. Do not discharge the product into the environment.

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

: Collect spillage. Small quantities of liquid spill: take up in non-combustible absorbent material For containment

and shovel into container for disposal.

Methods for cleaning up : This material and its container must be disposed of in a safe way, and as per local legislation.

#### 6.4. 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 : No open flames. No smoking. Use only non-sparking tools. Use only outdoors or in a well-

ventilated area. Avoid breathing dust, fume, gas, mist, spray, vapors.

Hygiene measures Do not eat, drink or smoke when using this product. Wash hands, forearms and face thoroughly after handling.

# 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 Lighting equipment, ventilating

Storage conditions : Store in freezer (-20°C). Protect from light.

Incompatible materials : Heat sources.

#### Specific end use(s)

No additional information available

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

#### **Control parameters**

| ALDOSTERONE 97% CP (9,11,12,12-D4, 98%) 100 UG/ML IN ACETONITRILE |                         |   |
|---|-------------------------|---|
| 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.   |
| ACETONITRILE UNLABELED (75-05-8)                                  |                         |   |
| Italy Dortugal LICA ACCILL  | ACCILLTMA (nnm)         | 20 00000000 npm Louise Boonisotom, Troot insitation   |

| ACETONITRILE UNLABELED       | 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.   |  |

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#### 8.2. Exposure controls

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

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



Materials for protective clothing
Hand protection
Wear suitable protective clothing and gloves.
Eye protection
Chemical goggles or face shield with safety glasses.

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

Respiratory protection : 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 : Colourless

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 : No data available
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

Highly flammable liquid and vapor.

#### 10.2. Chemical stability

See storage and expiration date on CoA.

## 10.3. Possibility of hazardous reactions

May form flammable/explosive vapor-air mixture.

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#### **Conditions to avoid**

Open flame. Direct sunlight.

#### Incompatible materials

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

#### Hazardous decomposition products

Carbon oxides (CO, CO2).

# **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. |
| ALDOSTERONE 97% CP (9,11,12,12-D4, 98%)    | 100 UG/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)                             | 500.065 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   |
| 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   |
| China annuarian/innitation                 | . Not along the d   |

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

: No evidence of carcinogenicity in animal studies (when indicated). Carcinogenicity

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

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

inhaled.

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 irritation.

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Symptoms/injuries 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

| ALDOSTERONE 97% CP (9,11,12,12-D4, 98%) 100 UG/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           |  |
| NOFC (chronic)  | 640 mg/l Daphnia magna (Water flea) - 14d            |  |

#### 12.2. Persistence and degradability

| ALDOSTERONE 97% CP (9,11,12,12-D4, 98%) 100 UG/ML IN ACETONITRILE |                  |                                  |
|---|------------------|----------------------------------|
| Persistence and degradability                                     | Biodegradability | Result: - Readily biodegradable. |
| ACETONITRILE UNLABELED (75-05-8)                                  |                  |                                  |
| Persistence and degradability                                     | Biodegradability | Result: - Readily biodegradable. |
| ALDOSTERONE 97% CP (9,11,12,12-D4, 98%) (1261254-31-2)            |                  |                                  |
| Persistence and degradability                                     | Not available.   |                                  |

#### 12.3. Bioaccumulative potential

| ALDOSTERONE 97% CP (9,11,12,12-D4, 98%) 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). |  |

| - |                    |                     |                   |
|---|--------------------|---------------------|-------------------|
| ĺ | ALDOSTERONE 97% CP | (9,11,12,12-D4, 98% | b) (1261254-31-2) |

Bioaccumulative potential Not available.

### 12.4. Mobility in soil

| ALDOSTERONE 97% CP (9,11,12,12-D4, 98%) 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. |  |  |

| ALDOSTERONE 97% CP (9,11,12,12-D4, 98%) | (1261254-31-2) |
|---|----------------|
| Ecology - soil                          | Not available. |

#### 12.5. 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**

# 13.1. Waste treatment methods

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

environmental control regulations.

Product/Packaging disposal recommendations: : Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed

professional waste disposal service to dispose of this material.

Ecology - waste materials : Dispose of as unused product.

# **SECTION 14: Transport information**

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

## 14.1. UN number

UN-No.(DOT) : 1648

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UN1648 DOT NA no.

#### 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

: IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite DOT Special Provisions (49 CFR 172.102) (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.

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

#### **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



Tunnel restriction code (ADR) : D/E Limited quantities (ADR) 11 Excepted quantities (ADR) : E2

# Transport by sea

: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a **DOT Vessel Stowage Location** 

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)

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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

| ALDOSTERONE 97% CP (9,11,12,12-D4, 98%) 100 UG/ML IN ACETONITRILE |   |  |  |
|---|---|--|--|
| SARA Section 302 Threshold Planning Quantity (TPQ)                | SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, 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)                | SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, 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   |  |  |
| ALDOSTERONE 97% CP (9,11,12,12-D4, 98%) (1261254-31-2)            |   |  |  |
| SARA Section 302 Threshold Planning Quantity (TPQ)                | Not subject to reporting requirements of the United States SARA Section 302.                                      |  |  |
| SARA Section 311/312 Hazard Classes                               | Delayed (chronic) health hazard   |  |  |
| SARA Section 313 - Emission Reporting                             | Not subject to reporting requirements of the United States SARA Section 313.                                      |  |  |

#### 15.2. International regulations

#### CANADA

# ALDOSTERONE 97% CP (9,11,12,12-D4, 98%) 100 UG/ML IN ACETONITRILE

Listed on the Canadian DSL (Domestic Substances List)

# 15.2.1. National regulations

# ALDOSTERONE 97% CP (9,11,12,12-D4, 98%) 100 UG/ML IN ACETONITRILE

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

### 15.3. US State regulations

| ALDOSTERONE 97% CP (9,11,12,12-D4, 98%) 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  | 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 -<br>Proposition 65 -<br>Carcinogens List | U.S California -<br>Proposition 65 -<br>Developmental Toxicity | U.S California -<br>Proposition 65 -<br>Reproductive Toxicity -<br>Female | U.S California -<br>Proposition 65 -<br>Reproductive Toxicity -<br>Male | No significant risk level (NSRL) |  |  |
| No   | No   | No  | No  |                                  |  |  |

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# Safety Data Sheet

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

| ALDOSTERONE 97% CP (9,11,12,12-D4, 98%) (1261254-31-2)   |  |   |   |                                  |  |  |
|--|--|---|---|----------------------------------|--|--|
| U.S California -<br>Proposition 65 -<br>Carcinogens List | U.S California -<br>Proposition 65 -<br>Developmental Toxicity | U.S California -<br>Proposition 65 -<br>Reproductive Toxicity -<br>Female | U.S California -<br>Proposition 65 -<br>Reproductive Toxicity -<br>Male | No significant risk level (NSRL) |  |  |
| 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

# ALDOSTERONE 97% CP (9,11,12,12-D4, 98%) (1261254-31-2)

### State or local regulations

- U.S. Pennsylvania RTK (Right to Know) List
- U.S. New Jersey Right to Know Hazardous Substance 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 (Oral)       | Acute toxicity (oral) Category 4                             |  |  |
| Eye Irrit. 2              | Serious eye damage/eye irritation Category 2                 |  |  |
| Flam. Liq. 2              | Flammable liquids Category 2                                 |  |  |
| STOT SE 2                 | Specific target organ toxicity (single exposure) 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   |  |  |
| H371                      | May cause damage to organs                                   |  |  |
| R11                       | Highly flammable   |  |  |
| R20/21/22                 | Harmful by inhalation, in contact with skin and if swallowed |  |  |
| R36                       | Irritating to eyes   |  |  |
| 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.



### **HMIS III Rating**

: 2 Moderate Hazard - Temporary or minor injury may occur Health

: 3 Serious Hazard Flammability 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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