

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 11/20/2014 Revision date: 10/12/2023 Supersedes: 5/17/2023 Version: 2.1

#### **SECTION 1: Identification**

#### 1.1. Identification

Product form : Mixture

Product name : (+/-)-CHLORAMPHENICOL (RING-D4, BENZYL-D1, 98%) 100 UG/ML IN CH3CN

Product code : DLM-119-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:vapor) Category 4 H332 Harmful if inhaled

Serious eye damage/eye irritation Category 2A 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

P233 - Keep container tightly closed.

P240 - Ground/Bond container and receiving equipment.

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

P242 - Use only non-sparking tools.

P243 - Take precautionary measures against static discharge.

P261 - Avoid breathing fume, mist, spray, vapors.

P264 - Wash Both hands thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

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

P280 - Wear eye protection, face protection, 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.

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<br>Acute Tox. 4 (Oral), H302<br>Acute Tox. 4 (Dermal), H312<br>Acute Tox. 4 (Inhalation), H332<br>Eye Irrit. 2A, H319 |
| (+/-)-CHLORAMPHENICOL (RING-D4, BENZYL-D1, 98%) | CAS-No.: 2787-09-9 | 0.013  | Resp. Sens. 1, H334<br>Skin Sens. 1, H317<br>Carc. 1B, H350                                                                              |

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

possible). Evacuate 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 : Remove/Take off immediately all contaminated clothing. 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 (acute and delayed)

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. Harmful if swallowed. Harmful in

contact with skin. Harmful if inhaled.

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 : Water spray. Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).

#### 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

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

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

self-contained breathing apparatus, rubber boots and thick rubber gloves.

Other information : Use water spray to cool unopened containers.

#### **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.

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#### 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

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

#### 6.2. Environmental precautions

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

#### 6.3. 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. For large spills, confine the spill in a dike and charge it with wet sand or earth for subsequent safe disposal. Small quantities of liquid spill: take up in non-combustible absorbent

material and shovel into container for disposal.

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.

#### 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.

Hygiene measures Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash hands, forearms and face 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.

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

| (+/-)-CHLORAMPHENICOL (RING-D4, BENZYL-D1, 98%) 100 UG/ML IN CH3CN                                     |  |  |
|--------------------------------------------------------------------------------------------------------|--|--|
| USA - ACGIH - Occupational Exposure Limits                                                             |  |  |
| ACGIH OEL TWA [ppm] 20 ppm Lower Respiratory Tract irritation. Not classifiable as a human carcinogen. |  |  |
| 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. |  |  |

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| ACETONITRILE UNLABELED (75-05-8)                            |                                             |  |
|-------------------------------------------------------------|---------------------------------------------|--|
| USA - OSHA - Occupational Exposure Limits                   |                                             |  |
| OSHA PEL TWA [1]                                            | 70 mg/m³ The value in mg/m3 is approximate. |  |
| 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.           |  |
| (+/-)-CHLORAMPHENICOL (RING-D4, BENZYL-D1, 98%) (2787-09-9) |                                             |  |
| No additional information available                         |                                             |  |

#### 8.2. Appropriate engineering controls

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

Environmental exposure controls : Avoid release to the environment.

#### 8.3. Individual protection measures/Personal protective equipment

#### 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

#### Skin and body protection:

Wear suitable protective clothing, gloves and eye/face protection

#### Respiratory protection:

Wear appropriate NIOSH/MSHA approved respirator.

#### 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

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 pH
 : 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.

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

Open flame. Direct sunlight.

#### 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.

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

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Acute toxicity (inhalation) : Harmful if inhaled.

| Acute toxicity (inhalation)                                        | Harmful if inhaled.                                                                              |  |
|--------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--|
| (+/-)-CHLORAMPHENICOL (RING-D4, BENZYL-D1, 98%) 100 UG/ML IN CH3CN |                                                                                                  |  |
| 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 (vapors)                                                    | 11 mg/l/4h                                                                                       |  |
| ATE US (dust, mist)                                                | 26.8 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                                                                                      |  |
| (+/-)-CHLORAMPHENICOL (RING-D4, BENZYL                             | -D1, 98%) (2787-09-9)                                                                            |  |
| LD50 oral rat                                                      | 2500 mg/kg                                                                                       |  |
| ATE US (oral)                                                      | 2500 mg/kg body weight                                                                           |  |
| Skin corrosion/irritation :                                        | Not classified                                                                                   |  |
| Serious eye damage/irritation :                                    | Causes serious eye irritation.                                                                   |  |
|                                                                    | Not classified                                                                                   |  |
|                                                                    | Not classified                                                                                   |  |
|                                                                    | Not classified                                                                                   |  |
| (+/-)-CHLORAMPHENICOL (RING-D4, BENZYL                             |                                                                                                  |  |
| IARC group                                                         | 2A - Probably carcinogenic to humans                                                             |  |
| Reproductive toxicity :                                            | Not classified                                                                                   |  |
| STOT-single exposure :                                             | Not classified                                                                                   |  |
|                                                                    | Not classified                                                                                   |  |
|                                                                    | Not classified                                                                                   |  |
|                                                                    | No data available                                                                                |  |
| -                                                                  | This information is based on our current knowledge and is intended to describe the product for   |  |
| symptoms                                                           | the purposes of health, safety and environmental requirements only. It should not therefore be   |  |
|                                                                    | construed as guaranteeing any specific property of the product. Harmful if swallowed. Harmful in |  |
|                                                                    | contact with skin. Harmful if inhaled.                                                           |  |
| Symptoms/effects after inhalation :                                | Danger of serious damage to health by prolonged exposure through inhalation. Harmful if          |  |
|                                                                    | inhaled.                                                                                         |  |
|                                                                    |                                                                                                  |  |

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

health hazard. Harmful in contact with skin.

Symptoms/effects after eye contact

: Causes serious eye irritation.

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

swallowed.

## **SECTION 12: Ecological information**

#### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse

effects in the environment.

| (+/-)-CHLORAMPHENICOL (RING-D4, BENZYL-D1, 98%) 100 UG/ML IN CH3CN |                                                      |  |
|--------------------------------------------------------------------|------------------------------------------------------|--|
| 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            |  |
| (+/-)-CHLORAMPHENICOL (RING-D4, BENZYL-D1, 98%) (2787-09-9)        |                                                      |  |
| LC50 - Fish [1]                                                    | 345 mg/l Daphnia magna (water flea) - 48 h           |  |

#### 12.2. Persistence and degradability

| (+/-)-CHLORAMPHENICOL (RING-D4, BENZYL-D1, 98%) 100 UG/ML IN CH3CN |                  |                                  |
|--------------------------------------------------------------------|------------------|----------------------------------|
| Persistence and degradability                                      | Biodegradability | Result: - Readily biodegradable. |
| ACETONITRILE UNLABELED (75-05-8)                                   |                  |                                  |
| Persistence and degradability                                      | Biodegradability | Result: - Readily biodegradable. |

#### 12.3. Bioaccumulative potential

| (+/-)-CHLORAMPHENICOL (RING-D4, BENZYL-D1, 98%) 100 UG/ML IN CH3CN |                                                      |  |
|--------------------------------------------------------------------|------------------------------------------------------|--|
| 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

| (+/-)-CHLORAMPHENICOL (RING-D4, BENZYL-D1, 98%) 100 UG/ML IN CH3CN |                                 |  |
|--------------------------------------------------------------------|---------------------------------|--|
| Ecology - soil                                                     | Not expected to absorb on soil. |  |

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| ACETONITRIL | LE UNLABEL | .ED (75-05-8) |
|-------------|------------|---------------|
|-------------|------------|---------------|

Ecology - soil Not expected to absorb on soil.

#### 12.5. 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. 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 : Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed

professional waste disposal service to dispose of this material. 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 : Dispose of as unused product.

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

In accordance with DOT / TDG / IMDG / IATA

#### 14.1. UN number

 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

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#### **IMDG**

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



#### IATA

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



#### 14.4. Packing group

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

### 14.5. Environmental hazards

Other information : No supplementary information available.

#### 14.6. Special precautions for user

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

CFR 173.27)

CFR 175.75)

DOT Quantity Limitations Cargo aircraft only (49 : 60 L

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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"

**TDG** 

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

Emergency Response Guide (ERG) Number : 127

**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 CAO packing instructions (IATA) 364 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

| (+/-)-CHLORAMPHENICOL (RING-D4, BENZYL-D1, 98%) 100 UG/ML IN CH3CN |                                                                             |
|--------------------------------------------------------------------|-----------------------------------------------------------------------------|
| CERCLA RQ                                                          | 5000 lb                                                                     |
|                                                                    | Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard |

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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            |       |
| (+/-)-CHLORAMPHENICOL (RING-D4, BENZYL-D1, 98%) | 2787-09-9 | 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                                                                     |  |
| SARA Section 311/312 Hazard Classes                                                                              | Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard |  |

| (+/-)-CHLORAMPHENICOL (RING-D4, BENZYL-D1, 98%) (2787-09-9) |                                                                             |
|-------------------------------------------------------------|-----------------------------------------------------------------------------|
| 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                                             |

#### 15.2. International regulations

#### CANADA

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

Listed on the Canadian DSL (Domestic Substances List)

#### (+/-)-CHLORAMPHENICOL (RING-D4, BENZYL-D1, 98%) (2787-09-9)

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

#### **EU-Regulations**

No additional information available

#### **National regulations**

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

Listed on INSQ (Mexican National Inventory of Chemical Substances)

#### (+/-)-CHLORAMPHENICOL (RING-D4, BENZYL-D1, 98%) (2787-09-9)

Listed on TECI (Thailand Existing Chemicals Inventory)

### 15.3. US State regulations

| 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 |

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### **SECTION 16: Other information**

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date : 10/12/2023

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                                                 |
| H317                   | May cause an allergic skin reaction                                          |
| H319                   | Causes serious eye irritation                                                |
| H332                   | Harmful if inhaled                                                           |
| H334                   | May cause an allergy or asthma symptoms or breathing difficulties if inhaled |
| H350                   | May cause cancer                                                             |

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.