



# NNAL 100 UG/ML IN ACETONITRILE (1,2',3',4',5',6'-13C6, 99%)

## 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: 28/08/2014

Revision date:

:

Version: 1.0

**CLM-4556-S**

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

### 1.1. Product identifier

Product form : Mixtures  
Product name. : NNAL 100 UG/ML IN ACETONITRILE (1,2',3',4',5',6'-13C6, 99%)  
Product code : CLM-4556-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.

#### 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  
[cilsales@isotope.com](mailto:cilsales@isotope.com) [www.isotope.com](http://www.isotope.com)

### Emergency telephone number

Emergency numbers:

Chemtrec: 1-800-424-9300 (24 hours)  
International: 1-202-483-7616 (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

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

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



# NNAL 100 UG/ML IN ACETONITRILE (1,2',3',4',5',6'-13C6, 99%) CLM-4556-S

## 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

### 2.2. Label elements

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

|                                |   |  |
|--------------------------------|---|--|
| Hazard pictograms (CLP)        | : |    |
|                                |   | GHS02      GHS07   |
| Signal word (CLP)              | : | Danger   |
| Hazardous ingredients          | : | ACETONITRILE UNLABELED   |
| Hazard statements (CLP)        | : | H225 - Highly flammable liquid and vapor<br>H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled<br>H319 - Causes serious eye irritation  |
| Precautionary statements (CLP) | : | P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking<br>P233 - Keep container tightly closed<br>P240 - Ground/bond container and receiving equipment<br>P241 - Use explosion-proof electrical, lighting, ventilating equipment<br>P261 - Avoid breathing dust, fume, gas, mist, spray, vapors<br>P264 - Wash Both hands thoroughly after handling<br>P270 - Do no eat, drink or smoke when using this product<br>P271 - Use only outdoors or in a well-ventilated area |

#### GHS-US labeling

|                                   |   |   |
|-----------------------------------|---|---|
| Hazard pictograms (GHS-US)        | : |     |
|                                   |   | GHS02      GHS07  |
| Signal word (GHS-US)              | : | Danger  |
| Hazard statements (GHS-US)        | : | H225 - Highly flammable liquid and vapor<br>H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled<br>H319 - Causes serious eye irritation   |
| Precautionary statements (GHS-US) | : | P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking<br>P233 - Keep container tightly closed<br>P240 - Ground/bond container and receiving equipment<br>P241 - Use explosion-proof electrical, lighting, ventilating equipment<br>P242 - Use only non-sparking tools<br>P243 - Take precautionary measures against static discharge<br>P261 - Avoid breathing dust, fume, gas, mist, spray, vapors<br>P264 - Wash Both hands thoroughly after handling<br>P270 - Do no eat, drink or smoke when using this product<br>P271 - Use only outdoors or in a well-ventilated area<br>P280 - Wear protective clothing, protective gloves<br>P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell<br>P302+P352 - IF ON SKIN: Wash with plenty of soap and water<br>P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower<br>P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing<br>P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing<br>P312 - Call a POISON CENTER/doctor/physician if you feel unwell<br>P321 - Specific treatment (see Hazard pictograms (CLP) on this label)<br>P330 - If swallowed, rinse mouth<br>P337+P313 - If eye irritation persists: Get medical advice/attention<br>P362+P364 - Take off contaminated clothing and wash it before reuse<br>P370+P378 - In case of fire: Use Alcohol resistant foam., Carbon dioxide., Dry chemical., Water spray for extinction<br>P403+P235 - Store in a well-ventilated place. Keep cool<br>P501 - Dispose of contents/container to Comply with applicable regulations. |

### 2.3. Other hazards

No additional information available

# NNAL 100 UG/ML IN ACETONITRILE (1,2',3',4',5',6'-13C6, 99%) CLM-4556-S

## 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

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

| Name                              | Product identifier   | %       | Classification according to 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 | 99.9873 | F; R11   |
| NNAL (1,2',3',4',5',6'-13C6, 99%) | (CAS No)76014-81-8 (Unlabeled)                                   | 0.0127  | 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 | 99.9873 | 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. 2, H319 |
| NNAL (1,2',3',4',5',6'-13C6, 99%) | (CAS No)76014-81-8 (Unlabeled)                                   | 0.0127  | Not classified  |

| Name                   | Product identifier | %       | Classification (GHS-US)  |
|------------------------|--------------------|---------|--|
| ACETONITRILE UNLABELED | (CAS No)75-05-8    | 99.9873 | 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 |

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

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

|                                       |  |
|---------------------------------------|--|
| First-aid measures general            | : Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.  |
| First-aid measures after inhalation   | : Remove 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 Hazard pictograms (CLP) on this label). Wash with plenty of soap and water. Wash contaminated clothing before reuse. |
| First-aid measures after eye contact  | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.   |
| First-aid measures after ingestion    | : Rinse mouth. Call a POISON CENTER/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 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 : Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

#### 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

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

# NNAL 100 UG/ML IN ACETONITRILE (1,2',3',4',5',6'-13C6, 99%) CLM-4556-S

## 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

### 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

No additional information available

##### 6.1.2. For emergency responders

No additional information available

#### 6.2. Environmental precautions

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

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

No additional information available

#### 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 naked lights. No smoking. Use only non-sparking tools. Use only outdoors or in a well-ventilated area. Avoid breathing dust, mist or spray.  
Hygiene measures : Do not eat, drink or smoke when using this product. Wash Both hands thoroughly after handling.

#### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical equipment.  
Storage conditions : Store refrigerated (-5 C to 5 C). Protect from light.  
Incompatible materials : Heat sources.

#### 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)  | 40.0000000000 ppm   |
| USA OSHA                         | OSHA PEL (STEL) (ppm) | 60.0000000000 ppm   |

#### 8.2. Exposure controls

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



Hand protection : Wear suitable protective clothing and gloves.  
Eye protection : Wear safety glasses with side shields (or goggles) and a face shield.  
Skin and body protection : Wear suitable protective clothing.  
Respiratory protection : Wear approved mask.

### 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 : Colourless.

# NNAL 100 UG/ML IN ACETONITRILE (1,2',3',4',5',6'-13C6, 99%) CLM-4556-S

## 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

|   |  |
|---|--|
| Odor  | : ether-like.  |
| Odor threshold                              | : No data available  |
| pH  | : No data available  |
| Relative evaporation rate (butyl acetate=1) | : No data available  |
| Melting point                               | : -48 °C (-54°F)   |
| Freezing point                              | : No data available  |
| Boiling point                               | : 81 - 82 °C (178 - 180 °F)  |
| Flash point                                 | : 2.0 °C (35.6 °F) - closed cup  |
| 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  |
| 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

Stable if stored under recommended conditions.

### 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

Open flame. Direct sunlight.

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

May release flammable gases.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

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

| NNAL 100 UG/ML IN ACETONITRILE (1,2',3',4',5',6'-13C6, 99%) |                            |
|---|----------------------------|
| 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             |

# NNAL 100 UG/ML IN ACETONITRILE (1,2',3',4',5',6'-13C6, 99%) CLM-4556-S

## 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

| <b>ACETONITRILE UNLABELED (75-05-8)</b>             |   |
|---|---|
| ATE (dust, mist)                                    | 1.500 mg/l/4h   |
| Skin corrosion/irritation                           | : Not classified  |
| Serious eye damage/irritation                       | : Causes serious eye irritation.  |
| Respiratory or skin sensitization                   | : Not classified  |
| Germ cell mutagenicity                              | : Not classified  |
| Carcinogenicity                                     | : Not classified  |
| Reproductive toxicity                               | : Not classified  |
| Specific target organ toxicity (single exposure)    | : Not classified  |
| Specific target organ toxicity (repeated exposure)  | : Not classified  |
| Aspiration hazard                                   | : Not classified  |
| Potential Adverse human health effects and symptoms | : Harmful if swallowed. Harmful in contact with skin. Harmful if inhaled.   |
| 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 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

| <b>ACETONITRILE UNLABELED (75-05-8)</b> |   |
|---|---|
| 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               |

### 12.2. Persistence and degradability

| <b>ACETONITRILE UNLABELED (75-05-8)</b> |   |
|---|---|
| Persistence and degradability           | Biodegradability Result: - Readily biodegradable. |

| <b>NNAL (1,2',3',4',5',6'-13C6, 99%) (76014-81-8 (Unlabeled))</b> |                |
|---|----------------|
| Persistence and degradability                                     | Not available. |

### 12.3. Bioaccumulative potential

| <b>NNAL 100 UG/ML IN ACETONITRILE (1,2',3',4',5',6'-13C6, 99%)</b> |       |
|--|-------|
| Log Pow  | -0.34 |

| <b>ACETONITRILE UNLABELED (75-05-8)</b> |  |
|---|--|
| Log Pow                                 | -0.34  |
| Bioaccumulative potential               | No bioaccumulation is to be expected (log Pow <= 4). |

| <b>NNAL (1,2',3',4',5',6'-13C6, 99%) (76014-81-8 (Unlabeled))</b> |                |
|---|----------------|
| Bioaccumulative potential   | Not available. |

### 12.4. Mobility in soil

| <b>ACETONITRILE UNLABELED (75-05-8)</b> |                                 |
|---|---------------------------------|
| Ecology - soil                          | Not expected to absorb on soil. |

| <b>NNAL (1,2',3',4',5',6'-13C6, 99%) (76014-81-8 (Unlabeled))</b> |                |
|---|----------------|
| Ecology - soil  | Not available. |

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

No additional information available

# NNAL 100 UG/ML IN ACETONITRILE (1,2',3',4',5',6'-13C6, 99%) CLM-4556-S

## 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

### 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 Comply with applicable regulations.
- Additional information : Handle empty containers with care because residual vapors are flammable.

### 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



- Packing group (DOT) : II - Medium Danger
- DOT Special Provisions (49 CFR 172.102) : IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized.  
T7 - 4 178.274(d)(2) Normal..... 178.275(d)(3)  
TP2 - a. The maximum degree of filling must not exceed the degree of filling determined by the following: (image) Where: tr is the maximum mean bulk temperature during transport, tf is the temperature in degrees celsius of the liquid during filling, and a is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filling (tf) and the maximum mean bulk temperature during transportation (tr) both in degrees celsius. b. For liquids transported under ambient conditions may be calculated using the formula: (image) Where: d15 and d50 are the densities (in units of mass per unit volume) of the liquid at 15 C (59 F) and 50 C (122 F), respectively.
- DOT Packaging Exceptions (49 CFR 173.xxx) : 150
- DOT Packaging Non Bulk (49 CFR 173.xxx) : 202
- DOT Packaging Bulk (49 CFR 173.xxx) : 242

#### 14.3. Additional information

- Other information : No supplementary information available.

# NNAL 100 UG/ML IN ACETONITRILE (1,2',3',4',5',6'-13C6, 99%) CLM-4556-S

## 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

### 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 :

Tunnel restriction code : D/E  
Limited quantities (ADR) : 1L  
EAC : •2YE  
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 (49 CFR 173.27) : 5L  
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 60 L  
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

#### NNAL 100 UG/ML IN ACETONITRILE (1,2',3',4',5',6'-13C6, 99%)

Listed on SARA Section 313 (Specific toxic chemical listings)

|                                     |   |
|-------------------------------------|---|
| SARA Section 311/312 Hazard Classes | Fire hazard<br>Immediate (acute) health hazard<br>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<br>Immediate (acute) health hazard<br>Delayed (chronic) health hazard |
|-------------------------------------|---|



# NNAL 100 UG/ML IN ACETONITRILE (1,2',3',4',5',6'-13C6, 99%) CLM-4556-S

## 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

### 15.2. International regulations

#### CANADA

##### NNAL 100 UG/ML IN ACETONITRILE (1,2',3',4',5',6'-13C6, 99%)

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

#### NNAL 100 UG/ML IN ACETONITRILE (1,2',3',4',5',6'-13C6, 99%)()

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

: 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 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) 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                     |
| 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                               |
| R11                                 | Highly flammable                                 |
| F                                   | Highly flammable                                 |

NFPA health hazard

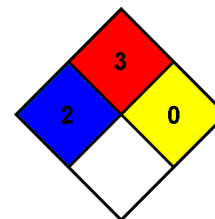
: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.

NFPA fire hazard

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

NFPA reactivity

: 0 - Normally 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

# NNAL 100 UG/ML IN ACETONITRILE (1,2',3',4',5',6'-13C6, 99%) CLM-4556-S

## 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

---

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*