



ACETONITRILE (1-13C, 99%)

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: 16/12/2010

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Version: 4.1

CLM-1260

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

1.1. Product identifier

| | |
|-----------------------|------------------------------------|
| Product form | : Substance |
| Substance name | : ACETONITRILE (1-13C, 99%) |
| EC Index-No. | : 608-001-00-3 (Unlabeled) |
| EC-No. | : 200-835-2 (Unlabeled) |
| CAS-No. | : 31432-55-0 |
| REACH registration No | : 01-2119471307-38 |
| Product code | : CLM-1260 |
| Formula | : CH ₃ ¹³ CN |
| Synonyms | : Methyl cyanide / ACN |

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

cilsales@isotope.com 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

Xi; R36

Xn; R20/21/22

Full text of R-phrases: see section 16

GHS-US classification

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

Full text of H statements : see section 16

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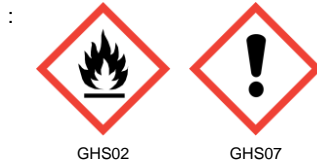
Adverse physicochemical, human health and environmental effects

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

2.2. Label elements

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

Hazard pictograms (CLP)



Signal word (CLP)

: Danger

Hazard statements (CLP)

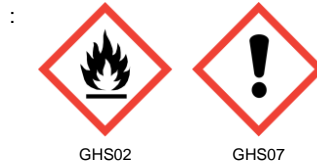
: H225 - Highly flammable liquid and vapor
H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled
H319 - Causes serious eye irritation

Precautionary statements (CLP)

: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 - Keep container tightly closed.
P240 - Ground/bond container and receiving equipment.
P241 - Use explosion-proof electrical equipment
P261 - Avoid breathing vapors, mist, gas.
P264 - Wash both hands thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P271 - Use only outdoors or in a well-ventilated area.

GHS-US labeling

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 equipment
P242 - Use only non-sparking tools.
P243 - Take precautionary measures against static discharge.
P261 - Avoid breathing dust, fume, gas, spray, mist, 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
P321 - Specific treatment (see First aid measures 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 Water spray, Alcohol resistant foam, Dry chemical, Carbon dioxide. to extinguish.
P403+P235 - Store in a well-ventilated place. Keep cool.
P501 - Dispose of contents/container to Comply with applicable regulations

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2.3. Other hazards

No additional information available

SECTION 3: Composition/Information on ingredients

3.1. Substances

| Name | Product identifier | % | Classification according to Directive 67/548/EEC |
|---------------------------|--|-----|--|
| ACETONITRILE (1-13C, 99%) | (CAS-No.) 31432-55-0 (EC-No.) 200-835-2 (Unlabeled) (EC Index-No.) 608-001-00-3 (Unlabeled) (REACH-no) 01-2119471307-38 | 100 | F; R11 Xi; R36 Xn; R20/21/22 |

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---------------------------|--|-----|---|
| ACETONITRILE (1-13C, 99%) | (CAS-No.) 31432-55-0 (EC-No.) 200-835-2 (Unlabeled) (EC Index-No.) 608-001-00-3 (Unlabeled) (REACH-no) 01-2119471307-38 | 100 | 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 R- and H- phrases: see section 16

| Name | Product identifier | % | GHS-US classification |
|---|----------------------|-----|--|
| ACETONITRILE (1-13C, 99%) (Main constituent) | (CAS-No.) 31432-55-0 | 100 | Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Eye Irrit. 2A, H319 |

Full text of H-phrases: see section 16

3.2. Mixtures

Not applicable

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 | : If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a physician. |
| First-aid measures after skin contact | : Wash off with soap and plenty of water. Consult a physician. |
| First-aid measures after eye contact | : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. |
| First-aid measures after ingestion | : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. |

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

| | |
|-------------------------------------|--|
| Symptoms/effects after inhalation | : Harmful if inhaled. May cause respiratory irritation. |
| Symptoms/effects after skin contact | : Harmful if absorbed through skin. May cause skin irritation. |
| Symptoms/effects after eye contact | : Causes serious eye irritation. |
| Symptoms/effects after ingestion | : Harmful if swallowed. |

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Reactivity : Vapors may form explosive mixture with air.

5.3. Advice for firefighters

Firefighting instructions : Wear self contained breathing apparatus for fire fighting if necessary.
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

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.

6.3. Methods and material for containment and cleaning up

For containment : Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations.

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 : Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use explosion-proof equipment. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Keep container tightly closed in a cool, dry and well-ventilated place.

Storage conditions : Store at room temperature away from light and moisture.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| ACETONITRILE (1-13C, 99%) (31432-55-0) | | |
|--|--------------------------------------|--|
| Italy - Portugal - USA ACGIH | ACGIH TWA (ppm) | 20.00000000 ppm USA. ACGIH Threshold Limit Values (TLV) Lower Respiratory Tract irritation. Not classifiable as a human carcinogen. Danger of cutaneous absorption |
| USA NIOSH | NIOSH REL (TWA) (mg/m ³) | 34 mg/m ³ USA. NIOSH Recommended Exposure Limits. Forms Cyanide in the body. |
| USA NIOSH | NIOSH REL (TWA) (ppm) | 20 ppm USA. NIOSH Recommended Exposure Limits. Forms Cyanide in the body. |
| USA OSHA | OSHA PEL (TWA) (mg/m ³) | 70 mg/m ³ USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants. The value in mg/m ³ is approximate. |
| USA OSHA | OSHA PEL (TWA) (ppm) | 40 ppm USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants. The value in mg/m ³ is approximate. |

| ACETONITRILE (1-13C, 99%) (31432-55-0) | |
|--|--|
| DNEL/DMEL (Workers) | |
| Acute - systemic effects, dermal | 32.2 mg/kg bodyweight/day Long-term systemic effects |
| Acute - systemic effects, inhalation | 68 mg/m ³ Acute local effects, Acute systemic |
| Acute - local effects, inhalation | 68 mg/m ³ Long-term local effects, Long-term systemic effects |
| DNEL/DMEL (General population) | |
| Acute - systemic effects, inhalation | 22 mg/m ³ Consumers |
| Acute - local effects, inhalation | 220 mg/m ³ Consumers |
| Long-term - systemic effects, inhalation | 4.8 mg/m ³ Consumers |
| PNEC (Water) | |
| PNEC aqua (freshwater) | 10 mg/l |
| PNEC aqua (marine water) | 1 mg/l |
| PNEC (Sediment) | |

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| ACETONITRILE (1-13C, 99%) (31432-55-0) | |
|--|----------------|
| PNEC sediment (freshwater) | 7.53 mg/kg dwt |
| PNEC (Soil) | |
| PNEC soil | 2.41 mg/kg dwt |
| PNEC (STP) | |
| PNEC sewage treatment plant | 32 mg/l |

8.2. Exposure controls

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



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 : Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Respiratory protection : When appropriate, use NIOSH/CEN approved respirator.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Liquid, clear
Molecular mass : 42.05 g/mol (Labeled)
Color : Colorless
Odor : Ether-like
Odor threshold : No data available
pH : No data available
Relative evaporation rate (butyl acetate=1) : No data available
Melting point : -48 °C (-54°F) - lit.
Freezing point : No data available
Boiling point : 81 - 82 °C (178 - 180 °F) - lit.
Flash point : 2 °C (35.6 °F) - closed cup
Auto-ignition temperature : 524 °C (975.2 °F)
Decomposition temperature : No data available
Flammability (solid, gas) : No data available
Vapor pressure : 73.18 hPa (54.89 mmHg) at 15°C (59 °F) ,121.44 hPa (91.09 mmHg) at 25 °C (77 °F), 413.23 hPa (309.95 mmHg) at 55 °C (131 °F),98.64 hPa (73.99 mmHg) at 20 °C (68 °F)
Relative vapor density at 20 °C : 1.42 - (Air = 1.0)
Relative density : No data available
Specific gravity / density : 0.786 g/ml at 25 °C (77 °F)
Solubility : Water: Completely Soluble
Log Pow : -0.54 at 25 °C (77 °F)
Log Kow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidizing properties : The substance or mixture is not classified as oxidizing.
Explosion limits : 3 - 16 vol %

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

Stable if stored under recommended conditions.

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10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Extremes of temperature and direct sunlight. Avoid Heat, Flames and Sparks.

10.5. Incompatible materials

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

10.6. Hazardous decomposition products

Formed under fire conditions: Carbon oxides, nitrogen oxides.

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.

| ACETONITRILE (1-13C, 99%) (31432-55-0) | |
|--|--|
| LD50 oral rat | 1320 - 6690 mg/kg |
| LD50 dermal rabbit | > 2000 mg/kg male and female (OECD Test Guideline 402) |
| LC50 inhalation rat (mg/l) | 26.8 mg/l - 4h |
| LC50 inhalation rat (ppm) | 3587 ppm Mouse - 4h (OECD Test Guideline 403) |
| 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 |

| | |
|---|--|
| Skin corrosion/irritation | : Not classified Skin - rabbit - No skin irritation - OECD Test Guideline 404 |
| Serious eye damage/irritation | : Causes serious eye irritation. Eyes - rabbit - Irritating to eyes - OECD Test Guideline 405 |
| Respiratory or skin sensitization | : Did not cause sensitization on laboratory animals. Buehler Test - guinea pig - Did not cause sensitisation on laboratory animals. (OECD Test Guideline 406) |
| Germ cell mutagenicity | : Hamster Ovary Result: negative. Mutation in mammalian somatic cells. Ames test. Not mutagenic in Ames Test. S. typhimurium result: negative. Hamster - Ovary - Sister chromatid exchange. Result: Equivocal evidence. Mutagenicity (micronucleus test) Mouse Result: Positive results were obtained in some in vivo tests. |
| Carcinogenicity | : No evidence of carcinogenicity in animal studies (when indicated). |
| Reproductive toxicity | : Animal testing did not show any effects on fertility. |
| Specific target organ toxicity – single exposure | : The substance or mixture is not classified as specific target organ toxicant, single exposure. |
| Specific target organ toxicity – repeated exposure | : The substance or mixture is not classified as specific target organ toxicant, repeated exposure. |
| Aspiration hazard | : Not classified |
| Potential Adverse human health effects and symptoms | : Treat as cyanide poisoning. Always have on hand a cyanide first-aid kit, together with proper instructions. The onset of symptoms is generally delayed pending conversion to cyanide. Nausea, Vomiting, Diarrhea, Headache, Dizziness, Rash, Cyanosis, Excitement, Depression, Drowsiness, Impaired judgment, Lack of coordination, Stupor, Death. Lungs - Lung edema - Based on human evidence. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. |
| Symptoms/effects after inhalation | : Harmful if inhaled. May cause respiratory irritation. |
| Symptoms/effects after skin contact | : Harmful if absorbed through skin. May cause skin irritation. |
| Symptoms/effects after eye contact | : Causes serious eye irritation. |
| Symptoms/effects after ingestion | : Harmful if swallowed. |

SECTION 12: Ecological information

12.1. Toxicity

| ACETONITRILE (1-13C, 99%) (31432-55-0) | |
|--|---|
| LC50 fish 1 | 1640 mg/l Pimephales promelas (fathead minnow) - 96 h |
| EC50 Daphnia 1 | 3600 mg/l Daphnia magna (Water flea) - 48 h (OECD Test Guideline 202) |
| NOEC (acute) | 102 mg/l Oryzias latipes - 21 d |
| NOEC (chronic) | 160 mg/l Daphnia magna (Water flea) - 21 d |

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12.2. Persistence and degradability

| ACETONITRILE (1-13C, 99%) (31432-55-0) | |
|--|---|
| BOD (% of ThOD) | 84 % ThOD |
| Biodegradation | Readily biodegradable. (OECD Test Guideline 301C) |

12.3. Bioaccumulative potential

| ACETONITRILE (1-13C, 99%) (31432-55-0) | |
|--|--|
| Log Pow | -0.54 at 25 °C (77 °F) |
| Bioaccumulative potential | No bioaccumulation is to be expected (log Pow <= 4). |

12.4. Mobility in soil

| ACETONITRILE (1-13C, 99%) (31432-55-0) | |
|--|---------------------------------|
| Ecology - soil | Not expected to absorb on soil. |

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.

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
- DOT NA no. UN1648

14.2. UN proper shipping name

- Proper Shipping Name (DOT) : Acetonitrile
- Class (DOT) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
- Hazard labels (DOT) : 3 - Flammable liquid



- Packing group (DOT) : II - Medium Danger
- DOT Special Provisions (49 CFR 172.102) : IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized.
T7 - 4 178.274(d)(2) Normal..... 178.275(d)(3)
TP2 - a. The maximum degree of filling must not exceed the degree of filling determined by the following: (image) Where: tr is the maximum mean bulk temperature during transport, tf is the temperature in degrees celsius of the liquid during filling, and a is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filling (tf) and the maximum mean bulk temperature during transportation (tr) both in degrees celsius. b. For liquids transported under ambient conditions may be calculated using the formula: (image) Where: d15 and d50 are the densities (in units of mass per unit volume) of the liquid at 15 C (59 F) and 50 C (122 F), respectively.
- DOT Packaging Exceptions (49 CFR 173.xxx) : 150
- DOT Packaging Non Bulk (49 CFR 173.xxx) : 202
- DOT Packaging Bulk (49 CFR 173.xxx) : 242
- DOT RQ : 5000 lbs
- Marine pollutant : No

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14.3. Additional information

Other information : No supplementary information available.

Overland transport

Packing group (ADR) : II
Class (ADR) : 3 - Flammable liquid
Hazard identification number (Kemler No.) : 33
Classification code (ADR) : F1
Hazard labels (ADR) : 3 - Flammable liquids



Orange plates :

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

Transport by sea

DOT Vessel Stowage Location : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.
DOT Vessel Stowage Other : 40 - Stow "clear of living quarters"
MFAG-No : 127

Air transport

DOT Quantity Limitations Passenger aircraft/rail : 5L
(49 CFR 173.27)
DOT Quantity Limitations Cargo aircraft only (49 : 60 L
CFR 175.75)
Civil Aeronautics Law : Flammable liquids

14.4. Environmental hazards

Other information : No supplementary information available.

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

ACETONITRILE (1-13C, 99%) (31432-55-0)

Subject to reporting requirements of United States SARA Section 313

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

15.2. International regulations

CANADA

ACETONITRILE (1-13C, 99%) (31432-55-0)

Listed on the Canadian DSL (Domestic Substances List)

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15.2.1. National regulations

No additional information available

15.3. US State regulations

| ACETONITRILE (1-13C, 99%)(31432-55-0) | |
|---|---|
| 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. - 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.

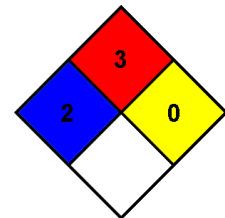
Full text of R-, H- and EUH-phrases:

| | |
|---------------------------|--|
| 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 |
| 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 |
| 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.



Hazard Rating

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

Flammability : 3 Serious Hazard

Physical : 0 Minimal Hazard

CIL Substance 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