

#### 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: 04/02/2020 Revision date: : Version: 1.0

NSK-B-CE

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

1.1. Product identifier

Product form : Mixtures

Product name : LABELED CARNITINE STANDARDS SET B

Product code : NSK-B-CE

#### 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 <a href="mailto:cilsales@isotope.com">cilsales@isotope.com</a> www.isotope.com

#### **Emergency telephone number**

Emergency numbers:

Chemtrec: 1-800-424-9300 (24 hours) International: 1-703-741-5970 (24 hours)

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

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

Skin Irrit. 2 H315 Eye Irrit. 2 H319 STOT SE 3 H335

Full text of hazard classes and H-statements : see section 16

#### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Xi; R36/37/38

Full text of R-phrases: see section 16

#### **GHS-US** classification

Skin Irrit. 2 H315 Eye Irrit. 2A H319 STOT SE 3 H335

Full text of H statements : see section 16

#### Adverse physicochemical, human health and environmental effects

No additional information available

## 2.2. Label elements

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

Hazard pictograms (CLP)



Warning

Signal word (CLP) : Warning

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Hazard statements (CLP) : H315 - Causes skin irritation

H319 - Causes serious eye irritation H335 - May cause respiratory irritation

Precautionary statements (CLP) : P261 - Avoid breathing dust, fume, gas, mist, spray, vapors.

P264 - Wash hands, forearms and face thoroughly after handling.

P271 - Use only outdoors or in a well-ventilated area. P280 - Wear protective clothing, protective gloves.

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

P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P312 - Call a POISON CENTER or doctor/physician if you feel unwell.

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

Hazard pictograms (GHS-US)



Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : H315 - Causes skin irritation

H319 - Causes serious eye irritation H335 - May cause respiratory irritation

Precautionary statements (GHS-US)

: P261 - Avoid breathing dust, fume, gas, mist, spray, vapors.

P264 - Wash hands, forearms and face thoroughly after handling.

P271 - Use only outdoors or in a well-ventilated area. P280 - Wear protective clothing, protective gloves. P302+P352 - If on skin: Wash with plenty of water

P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing

P312 - Call a doctor if you feel unwell

P321 - Specific treatment (see Hazardous component(s) for labeling on this label)

P332+P313 - If skin irritation occurs: Get medical advice/attention. P337+P313 - If eye irritation persists: Get medical advice/attention. P362 - Take off contaminated clothing and wash before reuse.

P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

P405 - Store locked up.

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

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

#### 2.3. Other hazards

No additional information available

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

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	Classification according to Directive 67/548/EEC
L-CARNITINE (TRIMETHYL-D9, 98%)	(CAS-No.) 1268-27-79-0 (EC-No.) 208-768-0 (Unlabeled)	48.24	Xi; R36/37/38
L-CARNITINE:HCL, O-ACETYL (N-METHYL-D3, 98%)	(CAS-No.) 1334532-17-0	17.19	Xi; R36/37/38
L-CARNITINE:HCL, O-PALMITOYL (N-METHYL-D3, 98%)	(CAS-No.) 1334532-26-1 (EC-No.) 242-642-6 (Unlabeled)	12.44	Xi; R36/37/38
L-CARNITINE:HCL, O-MYRISTOYL (N,N,N-TRIMETHYL-D9, 98%)	(CAS-No.) 1334532-25-0	5.91	Xi; R36/37/38
L-CARNITINE:HCL, O-OCTANOYL (N-METHYL-D3, 98%)	(CAS-No.) 54377-02-5 (Unlabeled)	4.63	Xi; R36/37/38
L-CARNITINE:HCL, O-ISOVALERYL (N,N,N-TRIMETHYL-D9, 98%)	(CAS-No.) 139144-12-0 (Unlabeled)	4.12	Xi; R36/37/38
L-CARNITINE:HCL, O-BUTYRYL (N-METHYL-D3, 98%)	(CAS-No.) 1334532-21-6	3.84	Xi; R36/37/38
L-CARNITINE:HCL, O-PROPIONYL (N-METHYL-D3, 98%)	(CAS-No.) 1334532-19-2	3.64	Xi; R36/37/38

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L-CARNITINE (TRIMETHYL-D9, 98%)	(CAS-No.) 1268-27-79-0 (EC-No.) 208-768-0 (Unlabeled)	48.24	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
L-CARNITINE:HCL, O-ACETYL (N-METHYL-D3, 98%)	(CAS-No.) 1334532-17-0	17.19	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
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Full text of R- and H- phrases: see section 16

## **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

First-aid measures general : If you feel unwell, seek medical advice (show the label where possible). Evacuate danger area.

First-aid measures after inhalation : When symptoms occur: go into open air and ventilate suspected area. If not breathing, give

artificial respiration. Get medical advice/attention.

First-aid measures after skin contact : Wash with plenty of soap and water. Get immediate medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes.

First-aid measures after ingestion : Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get

medical advice/attention.

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

Symptoms/effects after inhalation : May be harmful if inhaled. May cause respiratory irritation.

Symptoms/effects after skin contact : Causes skin irritation.

Symptoms/effects after eye contact : Causes serious eye irritation. Symptoms/effects after ingestion : May be harmful if swallowed.

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

No additional information available

#### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

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

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

No additional information available

#### 5.3. Advice for firefighters

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

apparatus. Do not enter fire area without proper protective equipment, including respiratory

protection.

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

Wear recommended personal protective equipment.

#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures : Avoid breathing vapors, mist, gas. Avoid dust formation.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

#### 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 : Take up mechanically (sweeping, shoveling) and collect in suitable container for disposal.

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

#### 6.4. Reference to other sections

For further information refer to section 13.

#### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Additional hazards when processed : Avoid all eye and skin contact and do not breathe vapor and mist.

Precautions for safe handling : Provide adequate ventilation to minimize dust and/or vapor concentrations.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

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

Technical measures : Store in a well-ventilated place. Keep container tightly closed.

Storage conditions : Store refrigerated (-5 °C to 5 °C). Protect from light.

Incompatible products : Strong bases. Strong acids.
Incompatible materials : Sources of ignition. Direct sunlight.

#### 7.3. Specific end use(s)

No additional information available

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

#### 8.1. Control parameters

#### LABELED CARNITINE STANDARDS SET B

DNEL/DMEL (Workers)

Acute - systemic effects, dermal < mg/kg bodyweight/day

## 8.2. Exposure controls

Appropriate engineering controls : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work.

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









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: Wear suitable protective clothing and gloves. Materials for protective clothing Hand protection Wear suitable protective clothing and gloves.

Eye protection : Wear 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 : In case of inadequate ventilation wear respiratory protection. Approved supplied air respirator.

Environmental exposure controls : Avoid release to the environment. Other information Do not eat, drink or smoke during use.

#### **SECTION 9: Physical and chemical properties**

#### Information on basic physical and chemical properties

The properties listed below are for the solvent, the main component of this mixture. : Solid Physical state

Appearance : Solid Color : White to off-white Odor : No data available Odor threshold : No data available

pΗ No data available Relative evaporation rate (butyl acetate=1) : No data available Melting point : No data available : No data available Freezing point Boiling point : No data available Flash point No data available Auto-ignition temperature : No data available Decomposition temperature : No data available Flammability (solid, gas) Non flammable No data available Vapor pressure Relative vapor density at 20 °C : No data available

Relative density : No data available Solubility No data available Log Pow No data available Log Kow : No data available : No data available Viscosity, kinematic Viscosity, dynamic No data available Explosive properties No data available Oxidizing properties : No data available Explosion limits : No data available

#### Other information

No additional information available

## SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No additional information available

#### **Chemical stability**

Stable for one year if stored under recommended conditions.

## Possibility of hazardous reactions

No additional information available

#### **Conditions to avoid**

Direct sunlight. Extremely high or low temperatures.

## Incompatible materials

Strong acids. Strong bases.

#### **Hazardous decomposition products**

Carbon oxides (CO, CO2), Fume.

#### **SECTION 11: Toxicological information**

#### Information on toxicological effects

Acute toxicity : Not classified

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L-CARNITINE (TRIMETHYL-D9, 98%) (1268-2	27-79-0)
LD50 oral rat	> 5000 mg/kg
Skin corrosion/irritation	: Causes skin irritation.
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	: May cause respiratory irritation.
Specific target organ toxicity – repeated exposure	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.
Symptoms/effects after inhalation	: May be harmful if inhaled. May cause respiratory irritation.
Symptoms/effects after skin contact	: Causes skin irritation.
Symptoms/effects after eye contact	: Causes serious eye irritation.

#### **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.

: May be harmful if swallowed.

#### 12.2. Persistence and degradability

No additional information available

Symptoms/effects after ingestion

#### **Bioaccumulative potential**

No additional information available

# **Mobility in soil**

No additional information available

#### Results of PBT and vPvB assessment

No additional information available

#### Other adverse effects 12.6.

Other adverse effects : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

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

#### 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

Not applicable

#### **UN** proper shipping name

Not applicable

#### **Additional information**

Other information : No supplementary information available.

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#### **Overland transport**

No additional information available

#### Transport by sea

No additional information available

#### Air transport

No additional information available

#### 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**

LABLED CARNITINE:HCL, O-PROPIONYL (N-METHYL-D3, 98%) (1334532-19-2)  SARA Section 3102 Threshold Planning Quantity (TPQ)  Not subject to reporting requirements of the United States SARA Section 302. Quantity (TPQ)  Not subject to reporting requirements of the United States SARA Section 313.  L-CARNITINE:HCL, O-BUTYRYL (N-METHYL-D3, 98%) (1334532-11-6)  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 302 Quantity (TPQ)  SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 311/312 Hazard Classes  Immediate (acute) health hazard  Not subject to reporting requirements of the United States SARA Section 302 Quantity (TPQ)  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 303 Quantity (TPQ)  SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 303 Threshold Planning Quantity (TPQ)  Not subject to reporting requirements of the United States SARA Section 313  L-CARNITINE:HCL, O-PROPIONYL (N-METHYL-D3, 98%) (1334532-19-2)  Not subject to reporting requirements of the United States SARA Section 313  L-CARNITINE:HCL, O-BUTYRYL (N-METHYL-D3, 98%) (1334532-21-6)  Not subject to reporting requirements of the United States SARA Section 313  L-CARNITINE:HCL, O-BUTYRYL (N-METHYL-D3, 98%) (1334532-21-6)  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 302  Quantity (TPQ)  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 302  CARNITINE:HCL, O-BUTYRYL (N-METHYL-D3, 98%) (1334532-21-6)  Not subject to reporting requirements of the United States SARA Section 302  Quantity (TPQ)  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 302  Quantity (TPQ)  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 302  QUANTITIE:HCL, O-ISOVALERYL (N,N-TRIMETHYL-			
SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 311/312 Hazard Classes  Immediate (acute) health hazard  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 313.  L-CARNITINE (TRIMETHYL-D9, 98%) (1268-27-79-0)  SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 311/312 Hazard Classes  Immediate (acute) health hazard  SARA Section 311/312 Hazard Classes  Immediate (acute) health hazard  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 313  L-CARNITINE:HCL, O-ACETYL (N-METHYL-D3, 98%) (1334532-17-0)  SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 311/312 Hazard Classes  Immediate (acute) health hazard  SARA Section 311/312 Hazard Classes  Immediate (acute) health hazard  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 313  L-CARNITINE:HCL, O-PROPIONYL (N-METHYL-D3, 98%) (1334532-19-2)  SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 311/312 Hazard Classes  Immediate (acute) health hazard  SARA Section 311/312 Hazard Classes  Immediate (acute) health hazard  SARA Section 311/312 Hazard Classes  Immediate (acute) health hazard  SARA Section 311/312 Hazard Classes  Immediate (acute) health hazard  SARA Section 302 Threshold Planning Not subject to reporting requirements of the United States SARA Section 313  L-CARNITINE:HCL, O-BUTYRYL (N-METHYL-D3, 98%) (1334532-21-6)  SARA Section 302 Threshold Planning Not subject to reporting requirements of the United States SARA Section 302  Quantity (TPQ)  SARA Section 311/312 Hazard Classes  Immediate (acute) health hazard  SARA Section 311/312 Hazard Classes  Immediate (acute) health hazard  SARA Section 311/312 Hazard Classes  Immediate (acute) health hazard  SARA Section 311/312 Hazard Classes  Immediate (acute) health hazard  SARA Section 311/312 Hazard Classes  Immediate (acute) health hazard			
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L-CARNITINE (TRIMETHYL-D9, 98%) (1268-27-79-0)  SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 311/312 Hazard Classes Immediate (acute) health hazard  SARA Section 302 Threshold Planning Not subject to reporting requirements of the United States SARA Section 313  L-CARNITINE:HCL, O-ACETYL (N-METHYL-D3, 98%) (1334532-17-0)  SARA Section 311/312 Hazard Classes Immediate (acute) health hazard  SARA Section 311/312 Hazard Classes Immediate (acute) health hazard  SARA Section 311/312 Hazard Classes Immediate (acute) health hazard  SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 302  C-CARNITINE:HCL, O-PROPIONYL (N-METHYL-D3, 98%) (1334532-19-2)  SARA Section 302 Threshold Planning Not subject to reporting requirements of the United States SARA Section 313  L-CARNITINE:HCL, O-PROPIONYL (N-METHYL-D3, 98%) (1334532-19-2)  SARA Section 311/312 Hazard Classes Immediate (acute) health hazard  SARA Section 311/312 Hazard Classes Immediate (acute) health hazard  SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 313  L-CARNITINE:HCL, O-BUTYRYL (N-METHYL-D3, 98%) (1334532-21-6)  SARA Section 302 Threshold Planning Not subject to reporting requirements of the United States SARA Section 302  Quantity (TPQ)  SARA Section 303 Threshold Planning Not subject to reporting requirements of the United States SARA Section 302  Quantity (TPQ)  SARA Section 311/312 Hazard Classes Immediate (acute) health hazard  SARA Section 311/312 Hazard Classes Immediate (acute) health hazard  SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 302  CARNITINE:HCL, O-ISOVALERYL (N,N,N-TRIMETHYL-D9, 98%) (13944-12-0 (Unlabeled))			
L-CARNITINE (TRIMETHYL-D9, 98%) (1268-27-79-0)  SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 311/312 Hazard Classes  Immediate (acute) health hazard  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 313  L-CARNITINE:HCL, O-ACETYL (N-METHYL-D3, 98%) (1334532-17-0)  SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 311/312 Hazard Classes  Immediate (acute) health hazard  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 302  Quantity (TPQ)  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 313  L-CARNITINE:HCL, O-PROPIONYL (N-METHYL-D3, 98%) (1334532-19-2)  SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 313  Quantity (TPQ)  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 313  L-CARNITINE:HCL, O-BUTYRYL (N-METHYL-D3, 98%) (1334532-21-6)  SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 301 Threshold Planning Quantity (TPQ)  SARA Section 301 Threshold Planning Quantity (TPQ)  SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 301 Threshold Planning Quantity (TPQ)  SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 303 Threshold Planning Quantity (TPQ)  SARA Section 301 Threshold Planning Quantity (TPQ)  SARA Section 302 Threshold Planning Quantity (TPQ)  Not subject to reporting requirements of the United States SARA Section 302 Quantity (TPQ)  SARA Section 311/312 Hazard Classes  Immediate (acute) health hazard  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 302 Quantity (TPQ)  SARA Section 311/312 Hazard Classes  Immediate (acute) health hazard  SARA Section 313 - Emission Reporting  Not subject to reporting requirem			
SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 311/312 Hazard Classes  Immediate (acute) health hazard  Not subject to reporting requirements of the United States SARA Section 313  L-CARNITINE:HCL, O-ACETYL (N-METHYL-D3, 98%) (1334532-17-0)  SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 301 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 302  Quantity (TPQ)  SARA Section 311/312 Hazard Classes  Immediate (acute) health hazard  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 313  L-CARNITINE:HCL, O-PROPIONYL (N-METHYL-D3, 98%) (1334532-19-2)  SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 311/312 Hazard Classes  Immediate (acute) health hazard  SARA Section 311/312 Hazard Classes  Immediate (acute) health hazard  Not subject to reporting requirements of the United States SARA Section 313  L-CARNITINE:HCL, O-BUTYRYL (N-METHYL-D3, 98%) (1334532-21-6)  SARA Section 302 Threshold Planning Quantity (TPQ)  Not subject to reporting requirements of the United States SARA Section 302  Quantity (TPQ)  SARA Section 302 Threshold Planning Quantity (TPQ)  Not subject to reporting requirements of the United States SARA Section 302  Quantity (TPQ)  SARA Section 311/312 Hazard Classes  Immediate (acute) health hazard  SARA Section 311/312 Hazard Classes  Immediate (acute) health hazard  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 313  L-CARNITINE:HCL, O-ISOVALERYL (N,N,N-TRIMETHYL-D9, 98%) (139144-12-0 (Unlabeled))			
Quantity (TPQ)  SARA Section 311/312 Hazard Classes  Immediate (acute) health hazard  Not subject to reporting requirements of the United States SARA Section 313  L-CARNITINE:HCL, O-ACETYL (N-METHYL-D3, 98%) (1334532-17-0)  SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 311/312 Hazard Classes  Immediate (acute) health hazard  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 313  L-CARNITINE:HCL, O-PROPIONYL (N-METHYL-D3, 98%) (1334532-19-2)  SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 311/312 Hazard Classes  Immediate (acute) health hazard  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 313  L-CARNITINE:HCL, O-BUTYRYL (N-METHYL-D3, 98%) (1334532-21-6)  SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 302 Threshold Planning Not subject to reporting requirements of the United States SARA Section 313  L-CARNITINE:HCL, O-BUTYRYL (N-METHYL-D3, 98%) (1334532-21-6)  SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 311/312 Hazard Classes  Immediate (acute) health hazard  SARA Section 311/312 Hazard Classes  Immediate (acute) health hazard  SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 302  L-CARNITINE:HCL, O-ISOVALERYL (N,N,N-TRIMETHYL-D9, 98%) (139144-12-0 (Unlabeled))			
L-CARNITINE:HCL, O-ACETYL (N-METHYL-D3, 98%) (1334532-17-0)  SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 311/312 Hazard Classes Immediate (acute) health hazard  SARA Section 302 Threshold Planning Not subject to reporting requirements of the United States SARA Section 313  L-CARNITINE:HCL, O-PROPIONYL (N-METHYL-D3, 98%) (1334532-19-2)  SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 302 Threshold Planning Not subject to reporting requirements of the United States SARA Section 313  L-CARNITINE:HCL, O-PROPIONYL (N-METHYL-D3, 98%) (1334532-19-2)  SARA Section 301/312 Hazard Classes Immediate (acute) health hazard  SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 313  L-CARNITINE:HCL, O-BUTYRYL (N-METHYL-D3, 98%) (1334532-21-6)  SARA Section 302 Threshold Planning Not subject to reporting requirements of the United States SARA Section 302 Quantity (TPQ)  SARA Section 301 Threshold Planning Not subject to reporting requirements of the United States SARA Section 302 Quantity (TPQ)  SARA Section 311/312 Hazard Classes Immediate (acute) health hazard  SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 313  L-CARNITINE:HCL, O-ISOVALERYL (N,N,N-TRIMETHYL-D9, 98%) (139144-12-0 (Unlabeled))			
L-CARNITINE:HCL, O-ACETYL (N-METHYL-D3, 98%) (1334532-17-0)  SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 311/312 Hazard Classes  Immediate (acute) health hazard  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 313  L-CARNITINE:HCL, O-PROPIONYL (N-METHYL-D3, 98%) (1334532-19-2)  SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 311/312 Hazard Classes  Immediate (acute) health hazard  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 313  L-CARNITINE:HCL, O-BUTYRYL (N-METHYL-D3, 98%) (1334532-21-6)  SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 303 Threshold Planning Quantity (TPQ)  SARA Section 311/312 Hazard Classes  Immediate (acute) health hazard  SARA Section 311/312 Hazard Classes  Immediate (acute) health hazard  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 302  CHARNITINE:HCL, O-ISOVALERYL (N,N,N-TRIMETHYL-D9, 98%) (139144-12-0 (Unlabeled))			
SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 311/312 Hazard Classes  Immediate (acute) health hazard  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 313  L-CARNITINE:HCL, O-PROPIONYL (N-METHYL-D3, 98%) (1334532-19-2)  SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 311/312 Hazard Classes  Immediate (acute) health hazard  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 313  L-CARNITINE:HCL, O-BUTYRYL (N-METHYL-D3, 98%) (1334532-21-6)  SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 302  Quantity (TPQ)  SARA Section 311/312 Hazard Classes  Immediate (acute) health hazard  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 302  L-CARNITINE:HCL, O-ISOVALERYL (N,N,N-TRIMETHYL-D9, 98%) (139144-12-0 (Unlabeled))			
Quantity (TPQ)  SARA Section 311/312 Hazard Classes Immediate (acute) health hazard  SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 313  L-CARNITINE:HCL, O-PROPIONYL (N-METHYL-D3, 98%) (1334532-19-2)  SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 311/312 Hazard Classes Immediate (acute) health hazard  SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 313  L-CARNITINE:HCL, O-BUTYRYL (N-METHYL-D3, 98%) (1334532-21-6)  SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 311/312 Hazard Classes Immediate (acute) health hazard  SARA Section 311/312 Hazard Classes Immediate (acute) health hazard  SARA Section 311/312 Hazard Classes Immediate (acute) health hazard  SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 313  L-CARNITINE:HCL, O-ISOVALERYL (N,N,N-TRIMETHYL-D9, 98%) (139144-12-0 (Unlabeled))			
SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 313  L-CARNITINE:HCL, O-PROPIONYL (N-METHYL-D3, 98%) (1334532-19-2)  SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 311/312 Hazard Classes  Immediate (acute) health hazard  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 313  L-CARNITINE:HCL, O-BUTYRYL (N-METHYL-D3, 98%) (1334532-21-6)  SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 311/312 Hazard Classes  Immediate (acute) health hazard  SARA Section 311/312 Hazard Classes  Immediate (acute) health hazard  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 302  L-CARNITINE:HCL, O-ISOVALERYL (N,N,N-TRIMETHYL-D9, 98%) (139144-12-0 (Unlabeled))			
L-CARNITINE:HCL, O-PROPIONYL (N-METHYL-D3, 98%) (1334532-19-2)  SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 311/312 Hazard Classes  Immediate (acute) health hazard  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 313  L-CARNITINE:HCL, O-BUTYRYL (N-METHYL-D3, 98%) (1334532-21-6)  SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 311/312 Hazard Classes  Immediate (acute) health hazard  SARA Section 311/312 Hazard Classes  Immediate (acute) health hazard  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 302  L-CARNITINE:HCL, O-ISOVALERYL (N,N,N-TRIMETHYL-D9, 98%) (139144-12-0 (Unlabeled))			
SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 311/312 Hazard Classes  Immediate (acute) health hazard  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 313  L-CARNITINE:HCL, O-BUTYRYL (N-METHYL-D3, 98%) (1334532-21-6)  SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 311/312 Hazard Classes  Immediate (acute) health hazard  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 302  L-CARNITINE:HCL, O-ISOVALERYL (N,N,N-TRIMETHYL-D9, 98%) (139144-12-0 (Unlabeled))			
Quantity (TPQ)  SARA Section 311/312 Hazard Classes Immediate (acute) health hazard  SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 313  L-CARNITINE:HCL, O-BUTYRYL (N-METHYL-D3, 98%) (1334532-21-6)  SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 311/312 Hazard Classes Immediate (acute) health hazard  SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 313  L-CARNITINE:HCL, O-ISOVALERYL (N,N,N-TRIMETHYL-D9, 98%) (139144-12-0 (Unlabeled))			
SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 313  L-CARNITINE:HCL, O-BUTYRYL (N-METHYL-D3, 98%) (1334532-21-6)  SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 311/312 Hazard Classes  Immediate (acute) health hazard  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 313  L-CARNITINE:HCL, O-ISOVALERYL (N,N,N-TRIMETHYL-D9, 98%) (139144-12-0 (Unlabeled))			
L-CARNITINE:HCL, O-BUTYRYL (N-METHYL-D3, 98%) (1334532-21-6)  SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 311/312 Hazard Classes  Immediate (acute) health hazard  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 302  L-CARNITINE:HCL, O-ISOVALERYL (N,N,N-TRIMETHYL-D9, 98%) (139144-12-0 (Unlabeled))			
SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 311/312 Hazard Classes  Immediate (acute) health hazard  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 302  L-CARNITINE:HCL, O-ISOVALERYL (N,N,N-TRIMETHYL-D9, 98%) (139144-12-0 (Unlabeled))			
Quantity (TPQ)  SARA Section 311/312 Hazard Classes Immediate (acute) health hazard  SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 313  L-CARNITINE:HCL, O-ISOVALERYL (N,N,N-TRIMETHYL-D9, 98%) (139144-12-0 (Unlabeled))			
SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 313  L-CARNITINE:HCL, O-ISOVALERYL (N,N,N-TRIMETHYL-D9, 98%) (139144-12-0 (Unlabeled))			
L-CARNITINE:HCL, O-ISOVALERYL (N,N,N-TRIMETHYL-D9, 98%) (139144-12-0 (Unlabeled))			
CADA Costion 200 Threshold Diaming Not subject to reporting requirements of the United Cities CADA Costics 200			
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 Immediate (acute) health hazard			
SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 313			
L-CARNITINE:HCL, O-OCTANOYL (N-METHYL-D3, 98%) (54377-02-5 (Unlabeled))			
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 Immediate (acute) health hazard			
SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 313			
L-CARNITINE:HCL, O-PALMITOYL (N-METHYL-D3, 98%) (1334532-26-1)			
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 Immediate (acute) health hazard			
SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 313			

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L-CARNITINE:HCL, O-MYRISTOYL (N,N,N-TRI	METHYL-D9, 98%) <b>(1334532-25-0)</b>
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	Immediate (acute) health hazard
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313

#### 15.2. International regulations

#### **CANADA**

#### LABELED CARNITINE STANDARDS SET B

Listed on the Canadian DSL (Domestic Substances List)

#### **National regulations**

No additional information available

## 15.3. US State regulations

LABELED CARNITINE STA	ANDARDS SET B()			
U.S California - Propositio	n 65 - Carcinogens List	No		
U.S California - Propositio Toxicity	n 65 - Developmental	No		
U.S California - Propositio Toxicity - Female	n 65 - Reproductive	No		
U.S California - Propositio Toxicity - Male	n 65 - Reproductive	No		
State or local regulations		U.S Pennsylvania - RTK (Right to Know) List U.S New Jersey - Right to Know Hazardous Substance List		t
L-CARNITINE (TRIMETHYL	D9, 98%) (1268-27-79-0)			
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	No	No	No	
L-CARNITINE:HCL, O-ACE	TYL (N-METHYL-D3, 98%)	(1334532-17-0)		
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	No	No	No	
L-CARNITINE:HCL, O-PRO	PIONYL (N-METHYL-D3, 9	98%) (1334532-19-2)		
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	No	No	No	
L-CARNITINE:HCL, O-BUT	YRYL (N-METHYL-D3, 98%	%) <b>(1334532-21-6)</b>		
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	No	No	No	
L-CARNITINE:HCL, O-ISO	L-CARNITINE:HCL, O-ISOVALERYL (N,N,N-TRIMETHYL-D9, 98%) (139144-12-0 (Unlabeled))			
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	No	No	No	

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s California - position 65 - relopmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
	No		1
	140	No	
YL (N-METHYL-D3, 98%)	(1334532-26-1)		
s California - position 65 - velopmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
	No	No	
L-CARNITINE:HCL, O-MYRISTOYL (N,N,N-TRIMETHYL-D9, 98%) (1334532-25-0)			
c California - position 65 - velopmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
	No	No	
Y (6	- California - position 65 - elopmental Toxicity  /L (N,N,N-TRIMETHYL-I - California - position 65 - elopmental Toxicity	Proposition 65 - Proposition 65 - Reproductive Toxicity - Female  No  PL (N,N,N-TRIMETHYL-D9, 98%) (1334532-25-0)  - California - Proposition 65 - Proposition 65 - Reproductive Toxicity - Reproductive Toxicity - Female  No	- California - Proposition 65 - Reproductive Toxicity - Proposition 65 - Reproductive Toxicity - Male  No  No  No  (L (N,N,N-TRIMETHYL-D9, 98%) (1334532-25-0)  - California - Proposition 65 - Proposition 65 - Proposition 65 - Reproductive Toxicity - Proposition 65 - Reproductive Toxicity - Reproductive Toxicity - Male

#### CARNITINE (TRIMETHYL-D9, 98%) (1268-27-79

#### State or local regulations

- U.S. Pennsylvania RTK (Right to Know) List
- U.S. New Jersey Right to Know Hazardous Substance List

#### L-CARNITINE:HCL, O-ACETYL (N-METHYL-D3, 98%) (1334532-17-0)

#### State or local regulations

- U.S. Pennsylvania RTK (Right to Know) List
- U.S. New Jersey Right to Know Hazardous Substance List

#### L-CARNITINE:HCL, O-PROPIONYL (N-METHYL-D3, 98%) (1334532-19-2)

## State or local regulations

- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

#### L-CARNITINE:HCL, O-BUTYRYL (N-METHYL-D3, 98%) (1334532-21-6)

#### State or local regulations

- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

#### L-CARNITINE:HCL, O-ISOVALERYL (N,N,N-TRIMETHYL-D9, 98%) (139144-12-0 (Unlabeled))

#### State or local regulations

- U.S. Pennsylvania RTK (Right to Know) List
- U.S. New Jersey Right to Know Hazardous Substance List

#### L-CARNITINE:HCL, O-OCTANOYL (N-METHYL-D3, 98%) (54377-02-5 (Unlabeled))

#### State or local regulations

- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

#### L-CARNITINE:HCL, O-PALMITOYL (N-METHYL-D3, 98%) (1334532-26-1)

#### State or local regulations

- U.S. Pennsylvania RTK (Right to Know) List
- U.S. New Jersey Right to Know Hazardous Substance List

#### L-CARNITINE: HCL, O-MYRISTOYL (N,N,N-TRIMETHYL-D9, 98%) (1334532-25-0)

#### State or local regulations

- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

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

Data sources

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

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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

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:

Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
R36/37/38	Irritating to eyes, respiratory system and skin
Xi	Irritant

NFPA health hazard : 1 - Materials that, under emergency conditions, can cause

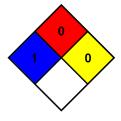
significant irritation.

NFPA fire hazard : 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as

concrete, stone, and sand.

NFPA reactivity : 0 - Material that in themselves are normally stable, even

under fire conditions.



#### **Hazard Rating**

Health : 1 Slight Hazard - Irritation or minor reversible injury possible

Flammability : 0 Minimal Hazard : 0 Minimal Hazard Physical

#### **CIL Mixture SDS**

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

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