

## 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: 27/02/2015 Revision date: 16/12/2019 Supersedes: 23/04/2018 Version: 2.1

NSK-B-G1-US

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

#### 1.1. Product identifier

Product form : Mixtures

Product name : UNLABELED CARNITINE STANDARDS SUPPLEMENT TO NSK-B

Product code : NSK-B-G1-US

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1. Relevant identified uses

Main use category : Professional use

Industrial/Professional use spec : For professional use only

#### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

Cambridge Isotope Laboratories, Inc.

50 Frontage Road Andover, MA 01810

USA

USA: 1-800-322-1174 Int: 1-978-749-8000 <u>cilsales@isotope.com</u> www.isotope.com

#### **Emergency telephone number**

Emergency numbers:

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

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

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

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

Skin Irrit. 2 H315 Eye Irrit. 2 H319 STOT SE 3 H335 STOT SE 3 H336

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 R67

Full text of R-phrases: see section 16

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

Skin Irrit. 2 H315 Eye Irrit. 2A H319 STOT SE 3 H336 STOT SE 3 H335

Full text of H statements : see section 16

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

No additional information available

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#### Label elements

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

Hazard pictograms (CLP)



GHS07

Signal word (CLP) : Warning

Hazard statements (CLP) H315 - Causes skin irritation

> H319 - Causes serious eye irritation H335 - May cause respiratory irritation H336 - May cause drowsiness or dizziness

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

P264 - Wash Both hands 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 POISON CENTER or doctor 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 H336 - May cause drowsiness or dizziness

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

P264 - Wash Both hands 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 poison center or doctor if you feel unwell

P321 - Specific treatment (see Hazard pictograms (CLP) 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 Comply with applicable regulations

#### Other hazards

No additional information available

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

#### **Substances**

Not applicable

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Name	Product identifier	%	Classification according to Directive 67/548/EEC
L-CARNITINE:HCL, O-DODECANOYL UNLABELED	(CAS-No.) 6919-91-1	27.77778	Xi; R36/37/38

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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

Name	Product identifier	%	Classification according to Directive 67/548/EEC
L-CARNITINE(MONO):CLO4, O-3-DL-HYDROXYPALMITOYL UNLABELED 97% CHEMICAL PURITY (FOR PROD. USE ONLY)	(CAS-No.) (EC-No.) (EC Index-No.)	27.77778	Xi; R36/37/38
L-CARNITINE(MONO):CLO4, O-GLUTARYL UNLABELED	(CAS-No.) NA	20.83333	Xi; R36/37/38
L-CARNITINE:CLO4, 3-HYDROXYISOVALERYL UNLABELED	(CAS-No.) 99159-87-2	13.88889	Xi; R36/37/38
L-CARNITINE:HCL, O-OCTADECANOYL UNLABELED		9.72222	Not classified
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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
L-CARNITINE:HCL, O-DODECANOYL UNLABELED	(CAS-No.) 6919-91-1	27.77778	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
L-CARNITINE(MONO):CLO4, O-3-DL-HYDROXYPALMITOYL UNLABELED 97% CHEMICAL PURITY (FOR PROD. USE ONLY)	(CAS-No.) (EC-No.) (EC Index-No.)	27.77778	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
L-CARNITINE(MONO):CLO4, O-GLUTARYL UNLABELED	(CAS-No.) NA	20.83333	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
L-CARNITINE:CLO4, 3-HYDROXYISOVALERYL UNLABELED	(CAS-No.) 99159-87-2	13.88889	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
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L-CARNITINE:HCL, O-OCTADECANOYL UNLABELED		9.72222	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335

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

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

4.1.	<b>Description of first aid measures</b>
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First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

First-aid measures after skin contact : Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Gently wash with plenty of soap and water. Get medical advice/attention. Specific

treatment (see Hazard pictograms (CLP) on this label).

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Rinse immediately with plenty of water. Get

medical advice/attention.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

Symptoms/effects after inhalation : May cause respiratory irritation.

Symptoms/effects after skin contact : Causes skin irritation.

Symptoms/effects after eye contact : Causes serious eye irritation.

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

No additional information available

First-aid measures after eye contact

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

#### 5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

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

No additional information available

#### 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire-fighting water from entering environment.

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

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

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

#### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

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

Methods for cleaning up : On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away

from other materials.

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

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

#### 7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Avoid breathing dust, mist or spray. Use only outdoors or in a well-ventilated area.

Hygiene measures : Wash Both hands thoroughly after handling.

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

Storage conditions : Store less than or equal to 8°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

No additional information available

#### 8.2. Exposure controls

Appropriate engineering controls : Handle in accordance with good industrial hygiene and safety practice. Wash hands before

breaks and at the end of workday.

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



Materials for protective clothing

: Wear suitable protective clothing and gloves.

Hand protection Eye protection : Wear suitable protective clothing and gloves.

Skin and body protection

: Chemical goggles or safety glasses.: Wear suitable protective clothing.

Respiratory protection

: When appropriate, use NIOSH/CEN approved respirator.

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: No data available

No data availableNo data available

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Environmental exposure controls : Avoid release to the environment.

Other information : Do not eat, drink or smoke during use.

#### **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.

: Solid Physical state Appearance : Solid Color : Colorless Odor Characteristic Odor threshold No data available pΗ : No data available : No data available Relative evaporation rate (butyl acetate=1) Melting point No data available No data available Freezing point Boiling point : No data available No data available Flash point No data available Auto-ignition temperature 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 Completely miscible Log Pow No data available Log Kow No data available : No data available Viscosity, kinematic Viscosity, dynamic : No data available

## 9.2. Other information

No additional information available

#### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Explosive properties
Oxidizing properties

**Explosion limits** 

No additional information available

#### 10.2. Chemical stability

Two years after date of manufacture.

## 10.3. Possibility of hazardous reactions

No additional information available

#### 10.4. Conditions to avoid

Extremely high or low temperatures. Direct sunlight.

#### 10.5. Incompatible materials

Strong acids. Strong bases.

#### 10.6. Hazardous decomposition products

Fume. Carbon monoxide. Carbon dioxide.

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

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

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

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Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity - single exposure : May cause respiratory irritation. May cause drowsiness or dizziness.

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 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.

#### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

No additional information available

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

No additional information available

#### 12.6. Other adverse effects

Other information : 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

Not applicable

#### 14.2. UN proper shipping name

Not applicable

#### 14.3. Additional information

Other information

: No supplementary information available.

Special transport precautions

: Not dangerous goods.

#### **Overland transport**

No additional information available

#### Transport by sea

No additional information available

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#### Air transport

No additional information available

#### 14.4. Environmental hazards

Other information : No supplementary information available.

#### 14.5. Special precautions for user

Special transport precautions : Not dangerous goods.

#### 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

L-CARNITINE(MONO):CLO4, O-GLUTARYL UNLABELED (NA)  SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 313  L-CARNITINE:CLO4, 3-HYDROXYISOVALERYL UNLABELED (99159-87-2)  SARA Section 302 Threshold Planning Quantity (TPQ)  Not subject to reporting requirements of the United States SARA Section 302  Quantity (TPQ)		
L-CARNITINE:CLO4, 3-HYDROXYISOVALERYL UNLABELED (99159-87-2)  SARA Section 302 Threshold Planning Quantity (TPQ)  Not subject to reporting requirements of the United States SARA Section 302		
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 313		
L-CARNITINE:HCL, O-OCTADECANOYL UNLABELED		
SARA Section 302 Threshold Planning Quantity (TPQ)  Not subject to reporting requirements of the United States SARA Section 302.		
SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 313.		
L-CARNITINE:HCL, O-DODECANOYL UNLABELED (6919-91-1)		
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.		
L-CARNITINE(MONO):CLO4, O-3-DL-HYDROXYPALMITOYL UNLABELED 97% CHEMICAL PURITY (FOR PROD. USE ONLY)		
SARA Section 302 Threshold Planning Quantity (TPQ)  Not subject to reporting requirements of the United States SARA Section 302.		

Not subject to reporing requirements of the United States SARA Section 313.

#### 15.2. International regulations

SARA Section 313 - Emission Reporting

#### **CANADA**

No additional information available

#### 15.2.1. National regulations

No additional information available

#### 15.3. US State regulations

UNLABELED CARNITINE STANDARDS SUPPLEMEN	IT TO NSK-B()
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

L-CARNITINE(MONO):CLO4, O-GLUTARYL UNLABELED (NA)				
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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L-CARNITINE:CLO4, 3	-HYDROXYISOVALERYL UNLA	BELED (99159-87-2)		
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-	OCTADECANOYL 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	
L-CARNITINE:HCL, O-	DODECANOYL UNLABELED (6	919-91-1)		
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(MONO):	CLO4, O-3-DL-HYDROXYPALM	ITOYL UNLABELED 97% CH	EMICAL PURITY (FOR PROD.	USE ONLY)
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(MONO):CLO4, O-GLUTARYL UNLABELED (NA)

#### State or local regulations

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

## L-CARNITINE:CLO4, 3-HYDROXYISOVALERYL UNLABELED (99159-87-2)

#### 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-OCTADECANOYL 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-DODECANOYL UNLABELED (6919-91-1)

#### State or local regulations

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

### L-CARNITINE(MONO):CLO4, O-3-DL-HYDROXYPALMITOYL UNLABELED 97% CHEMICAL PURITY (FOR PROD. USE ONLY)

#### State or local regulations

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

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

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.

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

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STOT SE 3	Specific target organ toxicity (single exposure) Category 3
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
H336	May cause drowsiness or dizziness
R36/37/38	Irritating to eyes, respiratory system and skin
R67	Vapors may cause drowsiness and dizziness
Xi	Irritant

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

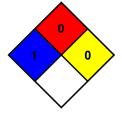
significant irritation.

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
Physical : 0 Minimal Hazard

#### CIL Mixture SDS

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

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