

BETA-CAROTENE (10,10',11,11'-13C4, 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: 21/06/2011

CLM-6126

Revision date: 26/01/2018

Supersedes: 21/11/2014

Version: 6.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking **Product identifier** 1.1. Product form : Substance : BETA-CAROTENE (10,10',11,11'-13C4, 99%) Substance name FC No : 230-636-6 (Unlabeled) CAS No : 7235-40-7 (Unlabeled) Product code : CLM-6126 : C36*C4H56 Formula : β,β-Carotene / Provitamin A Synonyms 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 Uses advised against 1.2.2. 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** Classification of the substance or mixture 2.1. Classification according to Regulation (EC) No. 1272/2008 [CLP] Not classified Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD] Not classified **GHS-US classification** Not classified Adverse physicochemical, human health and environmental effects No additional information available Label elements 2.2. Labelling according to Regulation (EC) No. 1272/2008 [CLP] No labelling applicable

GHS-US labelling

No labelling applicable

Other hazards 2.3.

No additional information available

26/01/2018

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SECTION 3: Composition/information on ingredients			
3.1. Substances			
Name	Product identifier	%	Classification according to Directive 67/548/EEC
BETA-CAROTENE (10,10',11,11'-13C4, 99%)	(CAS No) 7235-40-7 (Unlabeled) (EC No) 230-636-6 (Unlabeled) (EC Index No)	100	Not classified
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
BETA-CAROTENE (10,10',11,11'-13C4, 99%)	(CAS No) 7235-40-7 (Unlabeled) (EC No) 230-636-6 (Unlabeled) (EC Index No)	100	Not classified

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

Name	Product identifier	%	GHS-US classification
BETA-CAROTENE (10,10',11,11'-13C4, 99%) (Main constituent)	(CAS No) 7235-40-7 (Unlabeled)	100	Not classified

Full text of H-statements: see section 16

3.2. Mixtures			
Not applicable			
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 effe	cts, both acute and delayed		
Symptoms/injuries after inhalation	: May be harmful if inhaled. May cause respiratory irritation.		
Symptoms/injuries after skin contact	: May be harmful in contact with skin. May cause moderate irritation.		
Symptoms/injuries after eye contact	: May cause eye irritation.		
Symptoms/injuries after ingestion	: May be harmful if swallowed.		
4.3. Indication of any immediate medica	al attention and special treatment needed		
No additional information available			
SECTION 5: Fire-fighting 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 su	ubstance 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 e	quipment and emergency procedures		
6.1.1. For non-emergency personnel			
Emergency procedures	: Avoid breathing vapours, 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".		

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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 containm	nent and cleaning up
For containment	: Take up mechanically (sweeping, shovelling) 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	
Precautions for safe handling	: Provide adequate ventilation to minimize dust and/or vapour concentrations.
Hygiene measures	 Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
7.0 Conditions for only storens include	
7.2. Conditions for safe storage, includ	
Technical measures	: Store in a well-ventilated place. Keep container tightly closed.
Storage conditions	: Store in freezer (-20°C). Protect from light.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/pers	sonal protection
8.1. Control parameters	
No additional information available	
8.2. Exposure controls	
Appropriate engineering controls	: Wash hands and other exposed areas with mild soap and water before eating, drinking or
Appropriate engineering controls	smoking and when leaving work.
Personal protective equipment	: Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.
Materials for protective clothing	: Wear suitable protective clothing and gloves.
Hand protection	: Wear suitable protective clothing and gloves.
Eye protection	: Wear eve 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.
SECTION 9: Physical and chemical	
9.1. Information on basic physical and	
Physical state	: Solid
Appearance	: Powder.
Molecular mass	: 540.84 g/mol (Labeled)
Colour	: White.
Odour	: No data available.
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 178 - 179 °C (352 - 354 °F)
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 103.3 °C (217.9 °F) - closed cup
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available

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Relative density	: No data available
Solubility	: Water: 0.0006 g/l at 25 °C (77 °F)
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: Risk of explosion if heated under confinement.
Oxidising properties	: No data available
Explosive limits	: No data available
9.2. Other information	

Additional information

: Bulk density 0.20 - 0.25 g/l

SECTION	ON 10: Stability and reactivity			
10.1.	Reactivity			
No additi	No additional information available			
10.2.	Chemical stability			
Six mont	Six months after receipt of order if stored as above. Re-Qc after six months.			
10.3.	Possibility of hazardous reactions			
No additional information available				
10.4.	Conditions to avoid			
No additional information available				
10.5.	Incompatible materials			
Strong oxidizing agents. Acids.				
10.6.	Hazardous decomposition products			
Carbon oxides (CO, CO2).				
SECTIO	ON 11: Toxicological information			

SECTION 11: Toxicological information

: Not classified
(7235-40-7 (Unlabeled))
> 5000 mg/kg
: Skin. rabbit. Result: No skin irritation
: Eyes. rabbit. Result: No eye irritation
: Not classified
: 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.
: May be harmful if inhaled. May cause respiratory irritation.
: May be harmful in contact with skin. May cause moderate irritation.
: May cause eye irritation.
: May be harmful if swallowed.

SECTION 12: Ecological information		
12.1. Toxicity		
Ecology - general	The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.	
BETA-CAROTENE (10,10',11,11'-13C4, 99%) (7235-40-7 (Unlabeled))		
LC50 fish 1	> 10000 mg/l - Leuciscus idus (Golden orfe) - 96 h	

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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	
	n4
12.5. Results of PBT and vPvB assessment No additional information available	at
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal consideration	IS
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 / AI	
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.
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	,
Special transport precautions	: Not dangerous.

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		
BETA-CAROTENE (10,10',11,11'-13C4, 99%) (7235-40-7 (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.	

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15.2. International regulations

CANADA

BETA-CAROTENE (10,10',11,11'-13C4, 99%) (7235-40-7 (Unlabeled))
Listed on the Canadian DSL (Domestic Substances List)

15.2.1. National regulations

No additional information available

15.3. US State regulations

BETA-CAROTENE (10,10',11,11'-13C4, 99%)(7235-40-7 (Unlabeled))	
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 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.
NFPA health hazard	: 0 - Materials that, under emergency conditions, would offer no hazard beyond that of ordinary combustible materials.
NFPA fire hazard	: 1 - Materials that must be preheated before ignition can occur.
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.

HMIS III Rating	
Health	: 0 Minimal Hazard - No significant risk to health
Flammability	: 1 Slight Hazard
Physical	: 0 Minimal Hazard

CIL Multi-Solvent 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