according to Regulation (EC) No. 1907/2006



# CaroCare® Nat. ß-Carotene 30% S

5014808

Revision Date 31.07.2018 Date of last issue: 01.12.2017 Version 2.0

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

### 1.1 Product identifier

: CaroCare® Nat. ß-Carotene 30% S Trade name

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

Use of the Sub-: For the fortification of foods, Ingredient/additive for dietary stance/Mixture

supplements, Colouring agent for food and pharmaceutical

products

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

Company : DSM Nutritional Products Europe Ltd

PO Box 2676 CH-4002 Basel

Telephone : +41618157777 Telefax : +41618157770

E-mail address of person

responsible for the SDS

: sds.nutritionalproducts@dsm.com

### 1.4 Emergency telephone number

+41 848 00 11 77 (Carechem 24 International)

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

### 2.1 Classification of the substance or mixture

### Classification (REGULATION (EC) No 1272/2008)

Eye irritation, Category 2 H319: Causes serious eye irritation.

### 2.2 Label elements

### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Signal word Warning

Hazard statements H319 Causes serious eye irritation.

Precautionary statements : Prevention:

P264 Wash skin thoroughly after handling. Wear eye protection/ face protection. P280

Response:

1/9

P305 + P351 + P338 IF IN EYES: Rinse cautiously with wa-

> ter for several minutes. Remove contact lenses, if present and easy to do. Continue

P337 + P313 If eye irritation persists: Get medical advice/

attention.

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#### 2.3 Other hazards

In case of extensive air contact (e.g. soaked rags, moistened clothes) an exothermic autooxidation (self-ignition) is possible.

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

Brief description of the product

: Mixture (preparation) containing active ingredient and auxiliary

substance

#### 3.1 Substances

Not applicable

#### 3.2 Mixtures

### **Hazardous components**

Chemical name	CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
β,β-carotene	7235-40-7 230-636-6 01-2119967394-26	Eye Irrit. 2; H319	>= 30 - < 50

For explanation of abbreviations see section 16.

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

#### 4.1 Description of first aid measures

General advice : Move out of dangerous area.

Show this safety data sheet to the doctor in attendance.

If inhaled : Move to fresh air.

Consult a physician after significant exposure.

In case of skin contact : Take off contaminated clothing and shoes immediately.

Wash off with soap and plenty of water. If symptoms persist, call a physician.

: Immediately flush eye(s) with plenty of water. In case of eye contact

> Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

: Clean mouth with water and drink afterwards plenty of water. If swallowed

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

Obtain medical attention.

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

**Symptoms** : No specific symptoms known.

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

Treatment : Treat symptomatically.

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

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5.1 Extinguishing media

Suitable extinguishing media : Alcohol-resistant foam

Dry chemical

Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment.

Unsuitable extinguishing

media

: High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-

fighting

: None known.

5.3 Advice for firefighters

Special protective equipment

for firefighters

: In the event of fire, wear self-contained breathing apparatus.

Further information : Standard procedure for chemical fires.

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

When the spilled material is cleaned up with an absorbant material, attention should be paid to the possibility of exothermic autooxidation (self-ignition) in the presence of air, even at room temperature: store in the absence of air (e.g. in water) and send for incineration (or dispose of in accordance with local regulations).

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

Use personal protective equipment.

Ensure adequate ventilation.

### 6.2 Environmental precautions

Try to prevent the material from entering drains or water courses.

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

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, saw-dust).

Keep in suitable, closed containers for disposal.

#### 6.4 Reference to other sections

For personal protection see section 8.

For disposal considerations see section 13.

# **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Advice on safe handling : Avoid contact with skin and eyes.

For personal protection see section 8.

Handle under inert gas.

Smoking, eating and drinking should be prohibited in the ap-

plication area.

Advice on protection against

fire and explosion

Take necessary action to avoid static electricity discharge.

Product will burn under fire conditions.

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Hygiene measures : Handle in accordance with good industrial hygiene and safety

practice. Wash hands before breaks and at the end of work-

day.

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

Requirements for storage areas and containers

: To maintain product quality, do not store in heat or direct sun-

light.

Keep under inert gas.

Keep container tightly closed and dry.

7.3 Specific end use(s)

Specific use(s) : Not applicable

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

### 8.1 Control parameters

#### **Occupational Exposure Limits**

Components	CAS-No.	Value type (Form	Control parame-	Basis
		of exposure)	ters	
β,β-carotene	7235-40-7	TWA	1.5 mg/m3	DSM Internal Limit

#### 8.2 Exposure controls

### Personal protective equipment

Eye protection : Safety glasses with side-shields

Hand protection

: Consider the hazard characteristics of this product and any special workplace conditions when selecting the appropriate

type of protective gloves.

Glove material: for example nitrile rubber

Skin and body protection : Choose body protection according to the amount and concen-

tration of the dangerous substance at the work place.

Respiratory protection : In the case of vapour formation use a respirator with an ap-

proved filter.

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

### 9.1 Information on basic physical and chemical properties

Appearance : viscous, oily liquid

Colour : red
Odour : slight

Odour Threshold : No information available.

pH : No data available

Melting point/range : not determined Boiling point/boiling range : not determined

Flash point : ca. 316 °C

Test performed using a similar product.

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Evaporation rate : not determined
Lower explosion limit : not determined
Upper explosion limit : not determined
Vapour pressure : not determined
Relative vapour density : Not applicable
Density : not determined

Water solubility : insoluble

Solubility in other solvents : Oils and fats: slightly soluble

Partition coefficient: n-

octanol/water

: Not applicable

Auto-ignition temperature : No data available Ignition temperature : not determined

Thermal decomposition : Decomposes on heating in the presence of air.

Viscosity, dynamic : not determined

Explosive properties : Not explosive

Oxidizing properties : No data available

#### 9.2 Other information

No data available

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

### 10.1 Reactivity

No hazards to be specially mentioned.

### 10.2 Chemical stability

Stable under recommended storage conditions.

#### 10.3 Possibility of hazardous reactions

In case of extensive air contact (e.g. soaked rags, moistened clothes) an exothermic autooxidation (self-ignition) is possible.

### 10.4 Conditions to avoid

Heat

Exposure to air.

Exposure to light.

# 10.5 Incompatible materials

Oxidizing agents

Reducing agents

Strong acids and strong bases

### 10.6 Hazardous decomposition products

Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

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

# 11.1 Information on toxicological effects

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Acute oral toxicity : Acute toxicity estimate : > 2,000 mg/kg

(Calculation method)

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Skin irritation : May cause skin irritation and/or dermatitis.

Eye irritation

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β,β-carotene : Eye irritation (In vitro study, OECD Test Guideline 492)

Sensitisation : No known indication for sensitizing effect.

Genotoxicity in vitro : No indication for mutagenicity known.

Carcinogenicity : No indication for carcinogenicity known.

Reproductive toxicity : No indication for adverse effects on fertility known.

Teratogenicity : not teratogenic

not embryotoxic

(several species, Active ingredient)

STOT - single exposure (A-

cute exposure)

: The substance or mixture is not classified as specific target

organ toxicant, single exposure.

STOT - repeated exposure : NOAEL (feed admix, Dog) : 250 mg/kg bw/d

Test substance: Active ingredient Chronic toxicity study (2 years)

Further information : May cause skin discolorations.

: May cause irritation of respiratory tract.

Aspiration toxicity : No aspiration toxicity classification

# **SECTION 12: Ecological information**

### 12.1 Toxicity

No data is available on the product itself.

### 12.2 Persistence and degradability

Biodegradability : Expected to be biodegradable

### 12.3 Bioaccumulative potential

Bioaccumulation : No data available

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Partition coefficient: n-

octanol/water

: Not applicable

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12.4 Mobility in soil

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Distribution among environmental compartments

: No data available

#### 12.5 Results of PBT and vPvB assessment

Assessment : This substance/mixture contains no components considered to

> be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or

higher.

12.6 Other adverse effects

tion

Additional ecological informa: There is no data available for this product.

# **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Product : Organic materials (e.g. rags, paper, wood) which are soaked

with this product can heat up and catch fire in the presence of air, even at room temperature: store in the absence of air (e.g. in water) and send it for incineration (or dispose of in accord-

ance with local regulations).

Do not contaminate ponds, waterways or ditches with chemi-

cal or used container.

Do not dispose of waste into sewer.

Offer surplus and non-recyclable solutions to a licensed dis-

posal company.

Contaminated packaging : Dispose of as unused product.

Do not re-use empty containers.

### **SECTION 14: Transport information**

#### 14.1 UN number

Not regulated as a dangerous good

### 14.2 UN proper shipping name

Not regulated as a dangerous good

#### 14.3 Transport hazard class(es)

Not regulated as a dangerous good

### 14.4 Packing group

Not regulated as a dangerous good

#### 14.5 Environmental hazards

Not regulated as a dangerous good

#### 14.6 Special precautions for user

Remarks Not classified as dangerous in the meaning of transport regu-

lations.

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### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

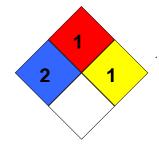
Not applicable for product as supplied.

### **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

NFPA Classification : Health hazard: 2

Fire Hazard: 1 Reactivity Hazard: 1



### 15.2 Chemical safety assessment

Not applicable

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

#### **Full text of H-Statements**

H319 : Causes serious eye irritation.

#### Full text of other abbreviations

Eye Irrit. : Eye irritation

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx -Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inven-

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tory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

#### **Further information**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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