

Safety data sheet

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BASF Safety data sheet according to 91/155/EEC

Date / Revised: 19.12.2005

Product: **Beta-Carotene 20% DC**

Version: 1.1

(30061292/SDS_GEN_EU/EN)

Date of print 20.12.2005

1. Substance/preparation and company identification

Beta-Carotene 20% DC

Use: food additive(s)

Company:

BASF Aktiengesellschaft

67056 Ludwigshafen

Contact address:

Fine Chemicals Division

E-mail address: basis-msds-label.me-qr@basf-ag.de

Emergency information:

Telephone: +49-1802273 112

Telefax number: 0621-60-92664

2. Composition/information on ingredients

Chemical nature

Preparation based on: beta-carotene

in a matrix of: carbohydrates, starch, Gelatins

3. Hazard identification

No particular hazards known.

4. First-aid measures

General advice:

Remove contaminated clothing.

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If inhaled:

Keep patient calm, remove to fresh air.

On skin contact:

Wash thoroughly with soap and water.

On contact with eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

On ingestion:

Rinse mouth and then drink plenty of water.

Note to physician:

Treatment: Symptomatic treatment (decontamination, vital functions).

5. Fire-fighting measures

Suitable extinguishing media:

water, carbon dioxide, foam, dry extinguishing media

Special protective equipment:

Wear a self-contained breathing apparatus.

Further information:

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6. Accidental release measures

Personal precautions:

Avoid dust formation.

Environmental precautions:

Do not empty into drains.

Methods for cleaning up or taking up:

For small amounts: Rinse away with water.

For large amounts: Sweep/shovel up.

Dispose of absorbed material in accordance with regulations.

7. Handling and storage

Handling

Handle in accordance with good industrial hygiene and safety practice.

Protection against fire and explosion:

Avoid dust formation. The product is capable of dust explosion. Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.

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Storage

Further information on storage conditions: Protect contents from the effects of light. Keep container tightly closed and dry; store in a cool place.

Storage stability:
Storage temperature: < 25 °C

Protect from temperatures above: 25 °C
The packed product must be protected against exceeding the indicated temperature.

8. Exposure controls and personal protection

Components with workplace control parameters

none

Personal protective equipment

Respiratory protection:
Breathing protection if breathable aerosols/dust are formed. Particle filter with low efficiency for solid particles (e.g. EN 143 or 149, Type P1 or FFP1)

Hand protection:
Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinylchloride (0.7 mm) and other
Supplementary note: The specifications are based on own tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the determined permeation time.

Eye protection:
Safety glasses with side-shields (frame goggles) (f.e. EN 166)

General safety and hygiene measures:
Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Form: powder
Colour: dark red
Odour: faint specific odour

Bulk density: approx. 600 kg/m³

Solubility in water: dispersible
(approx. 35 - 40 °C)

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10. Stability and reactivity

Hazardous reactions:
Dust explosion hazard.

No hazardous decomposition products if stored and handled as prescribed/indicated.

11. Toxicological information

Acute toxicity

| Information on: *beta-carotene*
LD50 rat (oral): > 5,000 mg/kg (BASF-Test)

Irritation

| Information on: *beta-carotene*
Primary skin irritation rabbit: non-irritant (BASF-Test)

| Information on: *beta-carotene*
Primary irritations of the mucous membrane rabbit: non-irritant (OECD Guideline 405)

Genetic toxicity

| Information on: *beta-carotene*
Results from a number of mutagenicity studies with microorganisms, mammalian cell culture and mammals are available. Taking into account all of the information, there is no indication that the substance is mutagenic.

12. Ecological information

Ecotoxicity

| Information on: *beta-carotene*
Toxicity to fish:
LC50, 96 h, > 10,000 mg/l, Leuciscus idus, DIN 38412 Part 15, static
Tested above maximum solubility. The details of the toxic effect relate to the nominal concentration.

| Information on: *beta-carotene*
Microorganisms/Effect on activated sludge:
EC50, 0.5 h, > 10,000 mg/l, Pseudomonas putida, DIN 38412 Part 27 (draft), static
The product has low solubility in the test medium. An aqueous solution prepared with solubilizers has been tested. The details of the toxic effect relate to the nominal concentration.

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Persistence and degradability

| *Information on: beta-carotene*

Bioaccumulation potential

| *Information on: beta-carotene*

No data available concerning bioaccumulation.

13. Disposal considerations

Observe national and local legal requirements.

14. Transport information

| Not classified as hazardous under transport regulations (ADR RID ADNR IMDG/GGVSee ICAO/IATA)

15. Regulatory information**Regulations of the European union (Labelling) / National legislation/Regulations**

The product does not require a hazard warning label in accordance with EC Directives.

Other regulations

16. Other information

Vertical lines in the left hand margin indicate an amendment from the previous version.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.