

Safety data sheet

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BASF Safety data sheet according to 91/155/EEC

Date / Revised: 19.02.2003

Product: **Lucarotin* 30 SUN**

Version: 1.0

(30085626/SDS_GEN_EU/EN)

Date of print 28.05.2008

1. Substance/preparation and company identification

Lucarotin* 30 SUN

Use: food additive(s)

Company:

BASF SE

67056 Ludwigshafen

GERMANY

Operating Division Care Chemicals

Telephone: +49 621 60-48643

Telefax number: +49 621 60 66-48643

E-mail address: EM-Masterdata@basf.com

Emergency information:

International emergency number:

Telephone: +49 180 2273-112

2. Composition/information on ingredients

Chemical nature

Preparation based on: beta-carotene (Content (W/W): 30 %), sunflower oil (Content (W/W): 70 %)

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.

5. Fire-fighting measures

Suitable extinguishing media:

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:

No special precautions necessary.

Environmental precautions:

Do not empty into drains.

Methods for cleaning up or taking up:

For large amounts: Dike spillage. Pump off product.

For residues: Pick up with suitable absorbent material.

Incinerate or take to a special waste disposal site in accordance with local authority regulations.

7. Handling and storage

Handling

Handle in accordance with good industrial hygiene and safety practice.

Protection against fire and explosion:

Electrical devices must meet the specified temperature class.

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Storage

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

8. Exposure controls and personal protection

Personal protective equipment

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 permeation time determined in accordance to EN 374.

Eye protection:

Safety glasses with side-shields (frame goggles) (EN 166)

General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Form: oily
Colour: orange to red
Odour: odourless

solidification temperature: 5 - 10 °C

Flash point: 118 °C (DIN 51758)

Ignition temperature: 375 °C (DIN 51794)

Vapour pressure: < 1 mbar
(20 °C)

Density: 0,941 g/cm³
(20 °C)

Solubility in water:
< 10 mg/l
(20 °C)

10. Stability and reactivity

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Thermal decomposition: approx. 80 °C

Hazardous reactions:

No hazardous reactions if stored and handled as prescribed/indicated.

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

11. Toxicological information

Information on: beta-carotene

LD50/oral/rat: > 5.000 mg/kg (BASF-Test)

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)

Further information:

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:

DIN 38412 Part 15 static

Leuciscus idus/LC50 (96 h): > 10.000 mg/l

Tested above maximum solubility. The details of the toxic effect relate to the nominal concentration.

Information on: beta-carotene

Microorganisms/Effect on activated sludge:

DIN 38412 Part 27 (draft) static

Pseudomonas putida/EC50 (0,5 h): > 10.000 mg/l

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

Assessment: No data available concerning biodegradation and elimination.

Bioaccumulation potential

Information on: beta-carotene

No data available concerning bioaccumulation.

13. Disposal considerations

Must be dumped or incinerated in accordance with local regulations.

14. Transport information

Not classified as hazardous under transport regulations.

15. Regulatory information

Regulations of the European union (Labelling) / National legislation/Regulations

not subject to labelling

Other regulations

16. Other information

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

The information contained herein is based on the present state of our knowledge and does not therefore guarantee certain properties. Recipients of our product must take responsibility for observing existing laws and regulations.