

Safety information sheet

Version: 1.0 EN

Beta-carotene E160a (i) – provitamin A

Article number: D10292

This document has been prepared as a communication tool to inform downstream users about both the status of the substance under REACH and CLP, some of its essential properties and the guidance on safe use. An extended safety data sheet (SDS) is not required for this substance under Article 31 of REACH Regulation (EC) No 1272/2008, including the amending Regulation (EU) 2020/878. As a result, the format and content of this document does not comply with the framework for safety data sheets set out in Commission Regulation (EU) No 453/2010 amending Regulation (EC) No 1907/2006.

1 Identification of the substance/mixture and the company

1.1 Product identifier

Name	Beta-carotene E160a (i) – Provitamin A
CAS number	7235-40-7
EC number	230-636-6
REACH registration	-

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

Description/use	Beta-carotene is a natural plant pigment and provitamin A, produced using modern spray-drying and microencapsulation techniques. For further information on specific applications, please contact us at the telephone number provided – we will be happy to put you in touch with the relevant specialist department.
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1.3 Details of the supplier providing the safety information sheet

Company	DistrEbution GmbH
Adress	Brookdeich 40 21029 Hamburg Germany
Telephone	+49 40 609 2387 60
E-Mail	info@distrebution.com

1.4 Emergency number

+49 40 609 2387 60 (Business hours: Mon - Thu: 8 a.m.- 5 p.m. / Fri: 8 a.m. – 4 p.m.)

2 Potential hazards

2.1 Classification of the substance or mixture

- Flammable dust

2.2 Label elements

- Signal word: Warning
- Hazard statements:

May form flammable dust concentrations in the air.

2.3 Other hazards

Das Produkt ist unter bestimmten Bedingungen zu Staubexplosionen fähig.

3 Composition/information on ingredients

Chemical Name	CAS No.	Concentration (w/w)
Maltodextrin	9050-36-6	30.0 %
Glucose Syrup	8029-43-4	29.0 %
Gum Arabic	9000-01-5	20.0 %
Sunflower Oil	8001-21-6	14.0 %
all-rac- α -Tocopherol	10191-41-0	2.0 %
Ascorbyl Palmitate	137-66-6	2.0 %
β -Carotene	7235-40-7	1.0 %
Vitamin C	50-81-7	1.0 %
Silicon Dioxide	7631-86-9	1.0 %

4 First-aid measures

4.1 Description of first-aid measures

After eye contact

Rinse eyes under running water for at least 15 minutes, keeping the eyelids open.
Seek medical attention if irritation occurs.

After skin contact

Remove contaminated clothing. Wash thoroughly with soap and water. Seek medical attention if irritation occurs.

Inhalation or ingestion

Move to fresh air; seek medical attention if necessary. Rinse mouth and then drink plenty of water. Never give anything by mouth to an unconscious person.

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4.2 Most important symptoms and effects, both acute and delayed

No specific symptoms are known.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5 Firefighting measures

5.1 Extinguishing agents

Suitable extinguishing agents

Water spray, foam, dry extinguishing agents, carbon dioxide (CO₂)

Unsuitable extinguishing agents

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5.2 Special hazards arising from the substance or mixture

Risk of dust explosions during firefighting.

5.3 Advice to firefighters

Protective equipment for firefighters

Firefighters should be equipped with self-contained breathing apparatus and full protective gear.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear suitable protective clothing and prevent dust from forming.

6.2 Environmental precautions

Do not allow to enter the sewerage system, surface water or groundwater.

6.3 Methods and material for containment and cleaning up

Sweep up and collect with a dustpan.

6.4 Reference to other sections

See section 7 for information on safe handling.

See section 8 for information on personal protective equipment.

See section 13 for information on disposal.

7 Handling and storage

7.1 Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practices. Provide local exhaust ventilation if dust is generated. Take precautions against static discharges.

7.2 Conditions for safe storage, including any incompatibilities

Behälter dicht verschlossen halten. Inhalt vor Licht, Feuchtigkeit und Wärme schützen.

8 Exposure controls/personal protective equipment

8.1 Parameters to be monitored

No exposure limits are known.

8.2 Limitation and monitoring of exposure

8.2.1 Appropriate engineering controls

Good general ventilation should be sufficient to control exposure to airborne contaminants.

8.2.2 Personal protective equipment

Respiratory protection

Personal respiratory protection is not normally required. In the event of high dust concentrations, use a dust mask appropriate to local conditions.

Eye protection

Wear safety goggles (chemical-resistant goggles) if there is a risk of exposure to airborne dust.

Body and skin protection

Protective measures must be selected according to the activity and exposure.

General protective and hygiene measures

Handle in accordance with good industrial hygiene and safety practices. Do not inhale dust. Avoid contact with the eyes. Wash contaminated clothing immediately.

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	Powder
Colour	Yellow to orange
Odour	None to faint
Odour threshold	No data available
pH value	No data available
Melting point	No data available
Boiling point	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability	No data available
Lower explosion limit	No data available
Upper explosion limit	No data available
Vapour density	No data available
Vapour pressure	No data available
Bulk density	No data available
Solubility	approx. 0.5 g/cm ³
Auto-ignition temperature	Dispersible in water (20°C)
Decomposition temperature	No data available

9.2 Other information

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10 Stability and reactivity

10.1 Reactivity

No hazardous reactions occur when stored and handled in accordance with the instructions.

10.2 Chemical stability

The product is stable when stored and handled in accordance with the instructions.

10.3 Possibility of hazardous reactions

Risk of dust explosions.

10.4 Conditions to avoid

Avoid moisture, dust formation and electrostatic charging.

10.5 Incompatible materials

Strong acids and strong bases. Strong oxidising agents.

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10.6 Hazardous decomposition products

No hazardous decomposition products when stored and handled in accordance with the instructions.

11 Toxicological information

11.1 Information on hazard classes according to Regulation (EC) No. 1272/2008

Likely routes of exposure: The routes of exposure for solids and liquids are ingestion and inhalation, but may also include eye or skin contact.

Acute oral toxicity	LD50 > 20,000 mg/kg (oral, rat)
Acute dermal toxicity	No data available
Acute inhalation toxicity	No data available
Skin corrosion/irritation	Contact with dust may cause mechanical irritation or drying of the skin.
Serious eye damage/irritation	Not irritating.
Respiratory/skin sensitisation	Not sensitising
Germ cell mutagenicity	Classification criteria are not met
Carcinogenicity	Classification criteria are not met
Reproductive toxicity	Classification criteria are not met
Developmental/teratogenic effects	No data available
Specific target organ toxicity after single exposure	No data available
Specific target organ toxicity after repeated exposure	No data available
Aspiration hazard	No data available

11.2 Information on other hazards

No data available

12 Environmental information

12.1 Toxicity

No quantitative data on the environmental effects of this product are available

12.2 Persistence and degradability

Not readily biodegradable

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

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12.5 Results of the PBT and vPvB assessment

No data available

12.6 Endocrine-disrupting properties

No data available

12.7 Other harmful effects

No data available

13 Disposal instructions

13.1 Waste treatment methods

Product disposal

Do not discharge into watercourses or sewerage systems without the appropriate authorisation. Dispose of in accordance with national, regional and local regulations.

Disposal of packaging

Dispose of empty containers and contaminated packaging in accordance with local regulations.

14 Transport information

Mode of Transport	Classification
Land Transport	Not classified as dangerous goods under transport regulations
Sea Transport	Not classified as dangerous goods under transport regulations
Air Transport	Not classified as dangerous goods under transport regulations

15 Legislation

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

In accordance with Regulation (EC) No 1272/2008 and 29 CFR Part 1910.1200.

15.2 Chemical safety assessment

No substance safety assessment has been carried out for this substance.

16 Other information

16.1 Abbreviations and acronyms

ADR – European Agreement concerning the International Carriage of Dangerous Goods by Road

RID – Regulations concerning the International Carriage of Dangerous Goods by Rail

IMDG – International Maritime Dangerous Goods Code

IATA – International Air Transport Association

GHS – Globally Harmonised System of Classification and Labelling of Chemicals

EINECS – European Inventory of Existing Commercial Chemical Substances

CAS – Chemical Abstracts Service

EC50 – Effective concentration, 50%

LC50 – Lethal concentration, 50%

LD50 – Lethal dose, 50%

TWA – Time Weighted Average

STEL – Short Term Exposure Limit

PBT – Persistent, bioaccumulative and toxic

vPvB – Very persistent and very bioaccumulative

16.2 SVHC

The substances on the ECHA list (<http://echa.europa.eu/en/candidate-list-table>) are neither expected to be present in our products nor are they intentionally used in the production process. Our products do not come into contact with these substances during production. However, it is not possible to completely rule out traces of these substances: due to natural impurities or raw material-related properties, an unintentional content of less than 0.1% cannot be completely ruled out.

16.3 Note for users

The information in this data sheet is based on our current knowledge at the time of the last revision. The user is responsible for checking the suitability and completeness of the information in relation to the specific use of the product.

This document does not constitute a guarantee for specific properties of the product. As we have no direct influence on the use of the product, the user is obliged to comply with all applicable laws, regulations and safety and hygiene provisions on his own responsibility. We accept no liability for improper use. Personnel entrusted with the handling of chemicals must be appropriately trained.