



Safety Data Sheet

Divi's safety data sheet according to OSHA HCS

Product Name: Beta-Carotene 10 % DC/AF

Version: 008

Revision date: 06.10.2018

SECTION 1: Identification.

1.1 GHS Product identifier

Product name : Beta-Carotene 10% DC/AF

1.2 Other means of identification

None

1.3 Recommended use of the chemical and restrictions on use

Used as Nutrient in dietary supplement applications.

1.4 Supplier's details : Divi's Laboratories Limited,
1-72/23(P)/Divis/303,
Divi towers, Cyber Hills, Gachibowli,
Hyderabad – 500 032, Telangana

e-mail: mail@divislaboratories.com

Website: www.divislabs.com

1.5 Emergency phone number +91-8922-248944

SECTION: 2 Hazards Identification

2.1 Classification of the substance or mixture:

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Not classified.

2.2 GHS label elements, including precautionary statements

No need for classification according to GHS criteria for this product

2.2.1 Signal word(s)

Not available

Hazard statement(s)

Not classified.

Precautionary statement(s)

Prevention:

Not available

Response:

Not available

Disposal:

Not available

2.2.2 Hazard pictograms:

No symbol

2.3 Other hazards which do not result in classification



Safety Data Sheet

Divi's safety data sheet according to OSHA HCS

Product Name: Beta-Carotene 10 % DC/AF

Version: 008

Revision date: 06.10.2018

Other hazards: Combustible dust

The product is under certain conditions capable of dust explosion.

May form combustible dust concentration in air.

SECTION 3. Composition/information on ingredients

3.1 Substances Material does not meet the criteria of a substance

3.2 Mixtures Modified starch, Beta carotene, Corn starch, Refined Corn oil, DL-alpha-tocopherol, Sodium Ascorbate

Substance Name	CAS No	Ec No	Content ratio W/W %	Classification according Regulation with 29 CFR 1910 (OSHA HCS)
Modified starch	9005-27-0	55.0 - 65.0%	Not classified as hazardous substance
Corn starch	9005-25-8	232-679-6	20.0 - 30.0%	Not classified as hazardous substance
Beta-Carotene	7235-40-7	230-636-6	10.0 - 12.5%	Not classified as hazardous substance
Refined Corn oil	8001-30-7	232-281-2	≤ 5.0%	Not classified as hazardous substance
DL-alpha-Tocopherol	10191-41-0	233-466-0	≤ 5.0%	Not classified as hazardous substance
Sodium Ascorbate	134-03-2	205-126-1	≤ 2.0%	Not classified as hazardous substance

SECTION 4: First aid measures

4.1 Description of necessary first-aid measures

4.1.1 General information:

Immediately remove contaminated clothing. If adverse health develop seek medical attention.

On inhalation:

Keep patient calm, remove to fresh air, Seek medical attention.

On skin contact:

Wash with soap and water for at least 15 minutes' while removing contaminated clothing and shoes.

Get medical attention if irritation develops

On eye contact:

Check for and remove any contact lenses. In case of Contact, immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Get medical attention if irritation occurs.

On ingestion:

DO NOT induce vomiting unless directed to do So by medical practitioner. Never give anything by mouth to an unconscious person. Get medical aid.

4.2 Most important symptoms/effects, acute and delayed

Symptoms/effects



Safety Data Sheet

Divi's safety data sheet according to OSHA HCS

Product Name: Beta-Carotene 10 % DC/AF

Version: 008

Revision date: 06.10.2018

Symptoms: No significant symptoms are expected due to the non-classification of the product.

4.3 Indication of immediate medical attention and special treatment needed

Treatment: Symptomatic treatment (decontamination, vital functions).

No known specific antidote.

SECTION 5: Fire fighting measures

5.1 Extinguishing media:

Suitable extinguishing media: Water spray, carbon dioxide, dry chemical powder or chemical foam.

Unsuitable extinguishing media: Water jet

5.2 Special hazards arising from the substance or mixture:

Hazardous combustion products: 2-propenal, carbon oxides, harmful vapours. The substances/groups of substances mentioned can be released in case of fire. Evolution of fumes/fog. Burning produces harmful and toxic fumes.

5.3 Advice for fire-fighters:

Wear self-contained, breathing apparatus and protective Clothing to prevent contact with skin and eyes. Wear appropriate NIOSH/ MSHA approved respirator, chemical-resistant gloves, safety goggles, other protective clothing.

Fire-fighters should be equipped with self-contained breathing apparatus and turn-out gear

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel:

Protective equipment:

Splash goggles, full suit, Shoes, gloves. A self-contained breathing apparatus should be used to avoid Inhalation of the product. Ensure adequate ventilation.

Emergency procedures:

As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150feet) in all directions. Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area) Keep out of low areas. Keep unauthorized personnel away. Stay upwind. Ventilate closed spaces before entering.

6.1.2 For emergencyresponders:

Avoid contact with the skin, eyes and clothing.

Use with local exhaust ventilation.

Wear self-contained, breathing apparatus and protective Clothing to prevent contact with skin and eyes.

Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator.



Safety Data Sheet

Divi's safety data sheet according to OSHA HCS

Product Name: Beta-Carotene 10 % DC/AF

Version: 008

Revision date: 06.10.2018

Wear safety glasses with side-shields.

Wear chemical resistant protective gloves.

Wear protective clothing.

Eye wash fountains and safety showers must be easily accessible.

6.2 Environmental precautions

Do not empty into drains. Do not discharge into drains/surface waters/ground water.

6.3 Methods and material for containment and cleaning up

6.3.1 for containment: For small amount: Rinse away with water.

For large amounts: Sweep/shovel up. Contain with dust binding material and dispose of

For residues: Contain with dust binding material and dispose of. Pick up with suitable appliance and dispose of.

Dispose of absorbed material in accordance with regulations

6.3.2 for cleaning up: Cleaning operations should be carried out only while wearing breathing apparatus. Nonsparking tools should be used

6.3.3 Other information:

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

Dusty conditions may ignite explosively in the presence of an ignition source causing flash fire.

Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Avoid the formation and build-up of dust - danger of dust explosion. Dust in sufficient concentration can result in an explosive mixture in air. Handle to minimize dusting and eliminate open flame and other sources of ignition.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

7.1.1 Protective measures

Advice on safe handling

Avoid dust formation. Provide exhaust ventilation if dust is formed.

Dust in sufficient concentration can result in an explosive mixture in air. Handle to minimize dusting and eliminate open flame and other sources of ignition. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Standard for the prevention of fire and dust Explosions from the manufacturing, processing, and handling of combustible particulate solid for safe handling. Avoid dust formation. Provide exhaust ventilation if dust is formed. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.



Safety Data Sheet

Divi's safety data sheet according to OSHA HCS

Product Name: Beta-Carotene 10 % DC/AF

Version: 008

Revision date: 06.10.2018

7.1.2 Advice on general occupational hygiene

Wash thoroughly with soap and water thoroughly after handling.

Take off contaminated clothing and wash it before reuse.

Do not store in direct Sunlight, humidity, and especially to heat.

Do not breath dust. No eating, drinking, smoking or tobacco use at the place of work.

Hands and /or face should be washed before breaks and at the end of the shift.

Store work clothing separately.

Handle in accordance with good industrial hygiene and safety practice.

Keep away from food, drink and animal feeding stuffs.

7.2 Conditions for safe storage, including any incompatibilities

Avoid dust formation. Dust in sufficient concentration can result in an explosive mixture in air.

The product should be stored at room temperature & dry conditions in the unopened original packaging. Contents should be used immediately after opening. Protect contents from the effects of light.

Atmospheric oxygen, strong oxidizing agents, reducing agents, strong acids, strong bases

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.1.1 Occupational exposure limit(s)

Substance name	CAS No	Occupational exposure Limits.
Modified starch	9005-27-0	TWA:5 mg/m ³ Respirable fraction 15 mg/m ³ Inhalable dust
Corn Starch	9005-25-8	OSHA-PEL:15 mg/m ³ Total inhalation TWA: 5mg/m ³ Respirable fraction ACGIH TLV:10 mg/m ³
Beta-Carotene	7235-40-7	----
Refined Corn oil	8001-30-7	OSHA PEL : 5 mg/m ³ (Respirable fraction) ; PEL :15 mg/m ³ (Total dust) ; TWA:5 mg/m ³ (Total dust) ; TWA : 5 mg/m ³ (Respirable fraction)
DL-alpha-Tocopherol	10191-41-0	OSHA- PEL:10 mg/m ³ (Total dust) TWA: 5mg/m ³ (Respirable dust)
Sodium Ascorbate	134-03-2	TWA:5mg/m ³

8.2 Appropriate engineering controls

It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or and explosion suppression system or an oxygen deficient environment. Ensure that dust-handling



Safety Data Sheet

Divi's safety data sheet according to OSHA HCS

Product Name: Beta-Carotene 10 % DC/AF

Version: 008

Revision date: 06.10.2018

systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust in to the work area. Use only appropriately classified electrical equipment and powered industrial trucks

8.3 Individual protection measures, such as Personal protective equipment (PPE)

Eye / Face protection:

Wear chemical safety goggles and/or a full-face shield. Maintain eye wash fountain in Work area.

Skin protection:

Shoes, gloves, lab coat, apron or coveralls, as appropriate, to protect skin contact.

Hand protection: Wear chemical resistant protective gloves.

Body protection: Wear impervious protective clothing, including shoes, gloves, lab coat, apron or coveralls, as appropriate, to protect skin contact.

Respiratory protection: Breathing protection if breathable aerosols/dust are formed.

Wear a NIOSH-certified (or equivalent) Particulate.

Thermal hazards: No data available

SECTION 9. Physical and chemical properties and safety characteristics

9.1 Basic physical and chemical properties

Property	Remarks/Guidance
Appearance	
Physical state	Solid
Colour	Reddish
Odour	No data available
Meltingpoint/freezingpoint	No data available
Initial boiling point/boiling range	No data available
Flammability	No data available
Upper/lower flammability or explosive limits	No data available
Flash point	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
p^H	No data available
Kinematic viscosity	No data available
Solubility(ies)	Dispersible in water
Partition- coefficient: n-Octanol/water	No data available
Vapour pressure	No data available



Safety Data Sheet

Divi's safety data sheet according to OSHA HCS

Product Name: Beta-Carotene 10 % DC/AF

Version: 008

Revision date: 06.10.2018

Density and/or relative density	No data available
Relative Vapour density	No data available
Particle Characteristics	No data available
Oxidising properties	No data available
Viscosity	No data available

9.2 Other information

No data available

SECTION 10: Stability and Reactivity

10.1 Reactivity

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

10.2 Chemical stability

No hazardous reactions when stored and handled according to instructions

10.3 Possibility of hazardous reactions

Dust explosion hazard.

10.4 Conditions to avoid

Avoid dust formation. Avoid electro-static charge. Avoid all sources of ignition exposure to heat, light & Moist air

10.5 Incompatible materials

Atmospheric oxygen, Strong oxidizing agents, reducing agents, strong acids, strong bases

10.6 Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1 Information on toxicological effects

a) **Acute toxicity:** Classification criteria are not met

Beta carotene:

Oral : LD50 Rat > 5000 mg/kg :

b) Skin corrosion/ irritation

Not irritating to the skin. The product has not been tested. The statement has been derived from the properties of the individual components.

c) Serious eye damage/irritation

Not irritating to the eyes. The product has not been tested. The statement has been derived from the properties of the individual components.

d) Respiratory or skin sensitisation

Assessment of Sensitization



Safety Data Sheet

Divi's safety data sheet according to OSHA HCS

Product Name: Beta-Carotene 10 % DC/AF

Version: 008

Revision date: 06.10.2018

The product has not been tested. The statement has been derived from the properties of the individual components

e) Germ cell mutagenicity

Not evaluated

f) Carcinogenicity

Not evaluated

g) Reproductive Toxicity

Not evaluated

h) STOT-Single Exposure : No data available

i) STOT-repeated Exposure: No data available

j)Aspiration Hazard : No data available

11.2 Information on the likely routes of exposure

Inhalation:

Inhalation of dusts may cause respiratory irritation. Prolonged inhalation may be harmful.

Skin contact:

No adverse effects due to skin contact are expected.

Eye contact:

Dust in the eyes will cause irritation.

Ingestion

Expected to be a low ingestion hazard.

11.3 Symptoms related to the physical, chemical and toxicological characteristics

No data available

11.4 Delayed and immediate effects and also chronic effects from short term and long term exposure.

No data available

SECTION 12: Ecological information

12.1 Toxicity:

Aquatic toxicity

Assessment of aquatic toxicity: There is a high probability that the product is not acutely harmful to aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

12.2 Persistence and degradability:

No data available

12.3 Bio accumulative potential:



Safety Data Sheet

Divi's safety data sheet according to OSHA HCS

Product Name: Beta-Carotene 10 % DC/AF

Version: 008

Revision date: 06.10.2018

No data available

12.4 Mobility in soil:

Assessment transport between environmental compartments

Information on: beta-Carotene

Adsorption to solid soil phase is expected

12.6 Other adverse effects:

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods.

Contact a licensed professional waste disposal service to Dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an after burner and scrubber. Observe all federal, state, and local environmental regulations

SECTION 14: Transport information

USDOT: Not classified as a dangerous good under transport regulations

IMDG: Not classified as a dangerous good under transport regulations

IATA/ICAO: Not classified as a dangerous good under transport regulations

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

US regulations

TSCA section 12(b) Export notification (40 CFR 707, subpt. D)

Not Regulated

CERCLA Hazardous substances list (40 CFR 302.4)

Not listed

SARA 304 Emergency release notification.

Not Regulated

SECTION 16: Other information

16.1 Preparation information

Version : 008

Effective Date : 06.10.2018

Date of previous issue : 12.12.2017

Prepared by : Divi's Laboratories Limited

16.2 Abbreviations and acronyms:

DOT: Department of Transportation



Safety Data Sheet

Divi's safety data sheet according to OSHA HCS

Product Name: Beta-Carotene 10 % DC/AF

Version: 008

Revision date: 06.10.2018

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System

EC No: European Community No.

ACGIH: American conference of governmental industrial hygienist

OSHA: Occupational safety & health administration

TLV: Threshold limit value

TWA: Time weighted average

PEL: Permissible exposure limit

UN: United nation

STOT: Specific target organ toxicity

CAS: Chemical Abstracts Service (division of the American Chemical Society)

TSCA: Toxic Substance control act

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

16.3 Key literature references and sources for data

1. **USP SDS** 1065480 Version #: 03 Revision date: 03-17-2016 Issue date: 02-07-2012
2. echa.europa.eu

Training advice: Consult your supervisor or local safety & health Professional for required training appropriate for the safe handling, use of protective equipment, and Emergency response for this material.

16.4 Further information:

Notice to Reader

NOTICE: This Safety Data Sheet is based upon data considered to be accurate at the time of preparation. Despite our efforts, it may not be up to date or applicable to the circumstances of any particular case. We are not responsible for any damage or injury resulting from abnormal use, from any failure to follow appropriate practices or from hazards inherent in the nature of the product

End of the safety data sheet