



# Material Safety Data Sheet

## Section 1 – Chemical Product and Company Information

Product Name	Beta-Carotene 10% DC
WHMIS Classification	
Manufacturer's Name	Divis Laboratories
Address	Divi's Laboratories Limited Divi Towers, 7-1-77/E/1/303, Dharam Karan Road, Ameerpet, Hyderabad - 500 016 INDIA
Emergency Telephone	0091-8922 245166
Emergency Contact	Krishna Prasad

## Section 2 – Composition and Information on Ingredients

Chemical Name	CAS #	% by weight	EINECS #	Symbol	R-Phrases
Gelatin	9000-70-8		232-554-6		
Ascorbyl Palmitate	137-66-6		205-305-4		
Sucrose	57-50-1		200-334-9		
Starch	9005-25-8		232-679-6		
dl-alpha-tocopherol	10191-41-0		233-466-0		
Corn oil	8001-30-7		232-281-2		
β-Carotene crystalline	7235-40-7		230-636-6		

## Section 3 – Hazards Identification

Physical / Chemical Hazards	Exposure: Inhalation, Ingestion, Skin contact, Eye contact
Eye	May cause eye irritation
Skin	May cause skin irritation
Inhalation	The toxicological properties of this substance have not been fully investigated
Ingestion	Expected to be a low ingestion hazard
Symptoms of Exposure	May cause drying and/or irritation of the mucous membrane, may cause gastrointestinal effects. Signs and symptoms may include nausea, vomiting, diarrhea, constipation, cramps and loss of appetite.



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Target Organ Data	Respiratory tract, gastrointestinal system
Other Health Effects	Carcinogenicity : formulation not listed by IARC, NTP or OSHA. Chronic effects : No adverse effects known.

## Section 4 – First Aid Measures

First Aid Measures	
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.
Skin Contact	Wash with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention if irritation develops.
Swallowing	If large quantities are swallowed, call a physician immediately. Loosen tight clothing such as a collar, belt or Waistband.
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.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

## Section 5 – Fire-fighting Measures

Hazardous Product of Combustion	Consider dust explosion or dust fire hazard. Actively cool fire-exposed containers with water spray or jet. Spontaneous ignition may occur when exposed to air.
Fire Explosion Hazards	Fine dust dispersed in air in sufficient concentrations, and in the presences of an ignition source is a potential dust explosion hazard.
Extinguishing Media	Water spray, carbon dioxide, dry chemical powder or chemical foam.
Fire Fighting Instructions	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. Use only in a fume hood.

## Section 6 – Accidental Release Measures

Large spill and leak	Vacuum or sweep up material and place into a suitable disposal container.
Personal protection in case of large spill	Splash goggles, full suit, boots, gloves. A self-contained breathing apparatus should be used to avoid inhalation of the



	product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
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Section 7 – Handling and Storage	
Handling	Avoid breathing dust, vapor, mist or gas. Avoid contact with skin and eyes. Processing in closed systems, if possible superposed by inert gas (e.g. Nitrogen). Take precautionary measures against electrostatic charging. Avoid dust formation; high dust explosion hazard. Local exhaust ventilation necessary.
Storage	Do not store in direct sunlight. Store in tightly closed container. Store in a dry area. Store at room temperature.
Packing Materials	Use original container

\* Several cases of spontaneous, violent to explosive decomposition reactions have been described ; these incidences mostly occurred after storing small amounts for longer time at very low temperatures (< 0C).

Section 8 – Exposure Controls / Personal Protection	
Eye Protection	Wear chemical goggles.
Skin Protection	Wear appropriate protective clothing to prevent skin exposure.
Respiratory Protection	Wear a NIOSH/MSHA approved respirator.
Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit

Section 9 – Physical and Chemical Properties	
Color	Red colored powder.
Physical State	Solid

Section 10– Stability and Reactivity	
Stability	The product is stable under normal temperatures and pressures for 24 months. Autooxidation in contact with atmospheric oxygen.
Conditions to avoid	Incompatible materials, light, exposure to air, exposure to moist air



	or water
Incompatibility	Strong oxidizing agents, reducing agents, strong acids, strong bases.
Hazardous Polymerization	Will not occur

## Section 11– Toxicological Information

Acute toxicity	LD <sub>50</sub> : > 20'000 mg/kg (oral rat, Beta-Carotene crystalline)
Carcinogenic Effects	Not carcinogenic
Mutagenic Effects	Not mutagenic
Reproductive Effects	Not teratogenic, not embryotoxic

## Section 12– Ecological Information

## Section 13– Disposal Information

Method of Disposal	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.
Waste Classification	Not regulated under RCRA.

## Section 14– Transportation Information

<b>International Transport Regulations</b>	
<u>Land – Road – Railway</u>	
Proper Shipping Name	Beta-Carotene 10% DC
ADR/RDI Class	Not regulated as a hazardous material.
<u>Sea</u>	
Proper Shipping Name	Beta-Carotene 10% DC
IMDG Class	Not regulated as a hazardous material.



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<u>Air</u>	
Proper Shipping Name	Beta-Carotene 10% DC
IATA-DGR Class	Not regulated as hazardous material.
<u>Inland Waterways</u>	
UN/ID Number	Not regulated as hazardous material
Proper Shipping Name	Beta-Carotene 10% DC

## Section 15 – Regulatory Information

US regulations	Ingredients are listed on the TSCA inventory.
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## Section 16 – Other Information

Use	Additive for tablets, dietary supplements
Biological activity	1 IU (International Unit) of provitamin A corresponds to 0.6 µg of purest β-Carotene. 1 RE (Retinol equivalent) corresponds to 6 µg of purest β-Carotene.
<u>History</u>	
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Prepared By	Divi's Laboratories Limited