SAFETY DATA SHEET
MICROCEL® 113 SD

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier:

Product name: MICROCEL® 113 SD

Synonyms: MCC, Cellulose Gel, E 460(i), Microcrystaline cellulose
UFI Number: Not applicable
Chemical name: Cellulose
REACH Registration No.: Exempted
CAS-No.: 9004-34-6
EC No.: 232-674-9

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

Identified uses:	Uses advised against:
Pharmaceuticals. Human nutrition PC 39 : Cosmetics, personal care products.	None Reported

1.3 Details of the supplier of the safety data sheet:

Supplier:
Crest Cellulose Private Limited.
Plot no: 12 & 13, Block-B, APIIC Industrial Park.
Menakur Village, Naidupet Mandal, SPS Nellore
District Nellore, Andhra Pradesh - 524421 - INDIA

Telephone: +91 98 4874 5566

E-mail: sagar.suravashi@roquette.com

1.4 Emergency telephone number:

+33 3 21 63 36 00

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture:

The product has not been classified as dangerous according to the legislation in force : CLP Regulation (EC) No 1272/2008.

2.2 Label elements:

Not applicable

2.3 Other hazards:

May form explosible dust-air mixture if airborne above the Minimum Explosive Concentration.
See Section 9.2.2 for more information.

SECTION 3: Composition/information on ingredients

3.1 Substance:

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.
Cellulose	>=98,5%	9004-34-6	232-674-9	Exempted

SECTION 4: First aid measures

4.1 Description of first aid measures:

Inhalation: Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

Eye contact: Promptly wash eyes with plenty of water while lifting the eye lids. Get medical attention if irritation persists after washing.

Skin contact: Wash with soap and water.

Ingestion: Drink plenty of water. Never give liquid to an unconscious person. Get medical attention if symptoms occur.

4.2 Most important symptoms and effects, both acute and delayed:

Dust may irritate the eyes and the respiratory system.

4.3 Indication of any immediate medical attention and special treatment needed:

Treatment: Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media:

Suitable extinguishing media: Water spray.

Unsuitable extinguishing media: Dry chemicals or foams. Straight Streams of Water

5.2 Special hazards arising from the substance or mixture:

Fire or excessive heat may produce hazardous substances.
Combustible dusts : may form an explosible mixture in the air.
See Section 10.

5.3 Advice for firefighters:

Special Fire Fighting Procedures: Avoid dust cloud to prevent explosion risk. Do not use water jet as an extinguisher, as this would spread the fire.

Special protective equipment for fire-fighters: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

See Section 8 of the SDS for Personal Protective Equipment.

6.2 Environmental precautions: No special precautions. Do not discharge into drains, water courses or onto the ground.

6.3 Methods and material for containment and cleaning up: Remove material, as much as possible, using mechanical equipment. Avoid dust cloud to prevent explosion risk. Collect and dispose of spillage as indicated in section 13 of the SDS.

6.4 Reference to other sections: For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1 Precautions for safe handling: Avoid generation and spreading of dust. Avoid contact with eyes, skin, and clothing. Avoid heat, sparks, open flames and other ignition sources. Provide good ventilation. See Section 5 of the SDS for prevention of combustible dust risk.

7.2 Conditions for safe storage, including any incompatibilities: Store in original container. Keep containers tightly closed. Keep container in a well-ventilated place. Store in a dry place. Avoid exposure to high temperatures or direct sunlight.

7.3 Specific end use(s): Pharmaceuticals., Human nutrition, PC 39 : Cosmetics, personal care products.,

SECTION 8: Exposure controls/personal protection

8.1 Control parameters:

Occupational exposure limits:

Chemical name	Type	Exposure Limit Values	Source
Dust - Inhalable dust.	MAK	4 mg/m3	Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG) (2019)
Dust - Respirable dust.	MAK	0,3 mg/m3	Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG) (2019)
Dust - Inhalable dust.	AGW	10 mg/m3	Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace (2019)
Dust - Respirable dust.	AGW	1,25 mg/m3	Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace (2019)

8.2 Exposure controls:

Appropriate engineering controls: Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of dust.

Individual protection measures, such as personal protective equipment:

Eye/face protection: Wear dust-proof safety goggles where there is a risk of eyes contact.

Skin protection:

Hand Protection:	Wear suitable gloves.
Other:	Wear suitable protective clothing.
Respiratory Protection:	In case of inadequate ventilation or risk of inhalation of dust, use suitable respiratory equipment with particle filter (type P1).
Hygiene measures:	Handle the product in accordance with the good hygiene practices and safety instructions.
Environmental exposure controls:	Do not allow runoff to sewer, waterway or ground.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Physical State:	solid
Form:	Powder
Water, moisture:	< 1,5 %
Color:	White
Odor:	Odorless
Odor Threshold:	No data available.
Melting Point:	Not Applicable
Boiling Point:	Not applicable or not available
Flash Point:	Not applicable or not available
pH:	5,0 - 7,0
Flammability (solid, gas):	NC: Not Classified
Solubility in Water:	The product is insoluble in water.
Solubility (other):	Alkalies.
Partition coefficient (n-octanol/water):	No data available.
Vapor pressure:	Not Applicable
Density:	~ 0,3 g/cm³ at 20 °C
Vapor density (air=1):	Not Applicable

9.2 Other information:

9.2.1 Information with regard to physical hazard classes:

No data available.

9.2.2 Other safety characteristics:

Formation of explosible dust/air mixtures:	- CHILWORTH - Data from similar product.
MIT (Minimum ignition temperature):	MIT (Minimum ignition temperature) : ~ 440 °C (EN 50281-2-1 / ASTM E1491) Minimum Ignition temperature (GT) - dust layer 5mm : ~ 340 °C (EN 50281-2-1 / ASTM E1491)
MIE (Minimum Ignition Energy):	~ 100 mJ (EN 13821 / ASTM E2019, Without Inductance, <63 µm) Sensitive to the risk of inflammation by an electrostatic discharge.
(dP/dt)max (Maximum Rate of explosion Pressure rise):	~ 393 bar/s (EN 14034-2 / ASTM E1226)
Pmax (Maximum Explosion OverPressure) ±10%:	~ 7,9 bar (EN 14034-1 / ASTM E1226)

Kst value (±20%):	~ 107 barm/s (EN 14034-2 / ASTM E1226)
Dust Explosion Class:	st 1 (VDI 3673)
Volume resistivity:	>10⁹ Ω.m (IEC 61241-2-2 / Group IIIB non-conductive dust.)
Moisture:	~ 3,79 % (ISO 589)
Mv (Median value):	~ 35,77 µm (ISO 13320)
Other Data:	MEC (Minimum Explosible Concentration) : 30-60 g/m3 (EN 14034-3 / ASTM E1515)

Oxidizing properties	NC: Not Classified
Evaporation Rate:	Not applicable or not available

The data reported in this section does not take the place of specifications.

SECTION 10: Stability and reactivity

10.1 Reactivity: Strong oxidizing agents.

10.2 Chemical stability: Material is stable under normal conditions.

10.3 Possibility of hazardous reactions: No hazardous reactions under ordinary conditions of use and storage.

10.4 Conditions to avoid: Avoid dust cloud to prevent explosion risk. Dust clouds may explode under certain conditions. Avoid dust close to ignition sources.

10.5 Incompatible materials: Strong oxidizing substances.

10.6 Hazardous decomposition products: Carbon Dioxide. Carbon Monoxide.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation EC 1272/2008:

Acute toxicity :

Test / Substance	Species	Type / Result	Exposure	Remarks
Cellulose	Rat	LD50 - Dermal : > 2 000 mg/kg		- Literature Reference -
Cellulose	Rat	LD50 - Oral : > 5 000 mg/kg		- Literature Reference -
Cellulose	Rat	LC50 - Inhalation : > 5,35 mg/l		- Literature Reference -

Skin irritation. :

Test / Substance	Species	Result	Exposure	Remarks
Cellulose	Rabbit	Not Irritating	4 h	- Literature Reference -

Serious eye irritation :

Test / Substance	Species	Result	Exposure	Remarks
Cellulose	Rabbit	Not Irritating	4 h	- Literature Reference -

Sensitization :

Test / Substance	Type	Species	Result	Remarks
Cellulose		Guinea Pig	Non-Sensitising	- Literature Reference -

Repeated dose toxicity :

Test / Substance	Species	Result	Exposure	Remarks
Scientific evaluation. Cellulose	Rat	NOEL : > 50 g/kg No treatment related effects.	90 day(s)	- Literature Reference -

Mutagenesis :

Test / Substance	Type	Species	Result	Remarks
Ames Cellulose		S. typhimurium	Negative	- Literature Reference -
micronucleus test Cellulose		Mouse	Negative	- Literature Reference -

Carcinogenicity :

Test / Substance	Species	Route of Exposure / Exposure	Result	Remarks
Scientific evaluation. Cellulose, carboxymethyl ether, sodium salt	Rat	Oral 104 Week(s).	Negative	- Literature Reference -
Scientific evaluation. Cellulose, carboxymethyl ether, sodium salt	Mouse	Oral 100 Week(s).	Negative	- Literature Reference -

Reproductive toxicity :

Test / Substance	Species	Route of Exposure / Exposure	Result	Remarks
Scientific evaluation. Cellulose	Rat	Oral	Negative	- Literature Reference -

11.2 Information on other hazards: No data available.

Remarks: The ingredients of this product are not classified as carcinogenic by the ACGIH, the CIRC, the OSHA or the NTP.

SECTION 12: Ecological information

12.1 Toxicity:

Acute toxicity:

Test / Substance	Species	Type/Result	Exposure	Remarks
Cellulose, carboxymethyl ether, sodium salt	Ceriodaphnia	EC50 : > 100 mg/l	48 h	- Literature Reference -
Cellulose, carboxymethyl ether, sodium salt	Rainbow Trout	LC50 : >20000 mg/l	96 h	- Literature Reference -

Chronic Toxicity: No data available.

12.2 Persistence and degradability:

Test / Substance	Result	Remarks
Cellulose	> 70 % Inherently biodegradable	- Literature Reference -

12.3 Bioaccumulative potential: No data available.

12.4 Mobility in soil: No data available.

12.5 Results of PBT and vPvB assessment: Exempted
12.6 Endocrine disrupting properties: No data available.

12.7 Other adverse effects: None known.

SECTION 13: Disposal considerations

13.1 Waste treatment methods:

Product: Dispose of waste in an appropriate authorized treatment facility in accordance with regulations in force and product characteristics at time of disposal. (for example, energy recovery).

Packaging material: Single use packaging. Collect for salvage or disposal.

SECTION 14: Transport information

14.1 UN number: The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID)..

14.2 UN proper shipping name: The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID)..

14.3 Transport hazard class(es): The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID)..

14.4 Packing group: The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID)..

14.5 Environmental hazards: The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.6 Special precautions for user: The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.7 Maritime transport in bulk according to IMO instruments: The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID)..

SECTION 15: Regulatory information

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

EU.REACH Article 59, candidate List of Substances of Very High Concern (SVHC).
Not listed

Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use
Not Applicable

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended
Not Applicable

REGULATION (EU) 2017/542 (CLP Annex VIII) :harmonised information relating to emergency health response and preventative measures.

UFI Number: Not Applicable

REGULATION (EU) 2019/1148 on the marketing and use of explosives precursors.

Not Applicable

International Inventories :

Australia. Inventory of Chemical Substances (AICS):	Listed.
Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL).:	Listed.
China. Inventory of Existing Chemical Substances (IECSC):	Listed.
Japan. Pharmacopoeia Listing:	Listed.
Japan. Industrial Safety & Health Law (ISHL):	Listed.
Japan. Inventory of Existing & New Chemical Substances (ENCS):	Listed.
Korea. Existing Chemicals Inventory (KECI):	Listed.
Philippines. Inventory of Chemicals and Chemical Substances (PICCS):	Listed.
New Zealand. Inventory of Chemicals (NZIoC):	Listed.
Mexico. National Inventory of Chemical Substances (INSQ):	Listed.
Taiwan. Existing Chemicals Inventory (TCSI):	Listed.
US. Toxic Substances Control Act (TSCA):	Listed.

This Safety Data Sheet is not mandatory according to the requirements of regulation (EC) N°1907/2006 (REACH) article 31 and is provided for information.

15.2 Chemical safety assessment: Exempted

SECTION 16: Other information

Revision Information: 11.09.2023

Key literature references and sources for data: JECFA : Joint FAO/WHO Expert Committee on Food Additives.
ToxNet Database.

Other information: Updated version of this document is available at :https://www.roquette.com/site-search#documents

Abbreviations and acronyms used in the SDS.:

CAS: Chemical Abstracts Service (division of the American Chemical Society)
CLP : Classification, Labelling and Packaging (Reg. EC 1272/2008).
PBT: Persistent, Bioaccumulative and Toxic
REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals.
vPvB: very persistent and very bioaccumulative substance.

Disclaimer: The information provided in this Safety Data Sheet (SDS) relates only to the specific product designated and may not be applicable when such product is used in combination with other materials or in any process. It is the responsibility of the user to be aware of and to follow the regulations applying to our product for its possession, handling and use.
The information given is designed only as a guidance and is not to be considered a warranty or quality specification.
All information and instructions provided in this SDS are based on the current state of our knowledge at the latest revision date indicated.