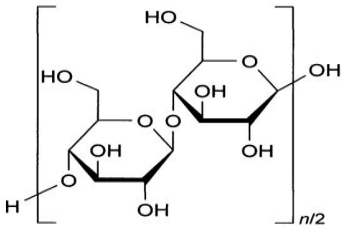


SIGACHI INDUSTRIES LIMITED Factory Address: Plot. No: 20-21, IDA, Phase-1, Pashamylaram, Patancheru, (M), Sangareddy (Dist), Telangana, India- 502307.	Document No.: MSDS/MCC/001
MATERIAL SAFETY DATA SHEET	Reviewed On: 01/04/2023
PRODUCT: MICROCRYSTALLINE CELLULOSE (MCC)	

01 IDENTIFICATION:		
Product identifier: Product Name: Microcrystalline Cellulose Powder Trade name: HiCel TM Grade: 50M, 90M, LP200, HD50, HD90M, 25M, 12M, 14M, LM50, LM90, XLM50, XLM90, XLM200, LD50M Trade Name: AceCel [®] Grade: 101, 102, 112, 200, 301, 302, 105, 12, 14, 103, 113 LD1000, SG1030, SG 1032 Article Number: E460i CAS (Chemical Abstract Services) Number: 9004-34-6 EC number: 232-674-9 Molecular Formula: C _{6n} H _{10n+2} O _{5n+1} Details of the supplier of the safety data sheet: Manufacturer/Supplier: M/s. SIGACHI INDUSTRIES LIMITED. UNIT 1 : Hyderabad Unit Plot No. 20-21, IDA, Phase-1, Pashamylaram, Sangareddy (district), Telangana, India -502307. e-mail: qa.hyd@sigachi.com Information department: Product safety department Emergency telephone number: +9140 40114874 / 75 / 76		
02 HAZARD(Z) IDENTIFICATION :	UNIT 2: Dahej SEZ Unit Plot no. Z-16, Dahej SEZ Part I, Dahej, Dist. Bharuch – 392130 Gujarat state (india) e-mail: qa.dahej@sigachi.com UNIT 3: Jhagadia Unit Plot No. 763/2, Jhagadia GIDC, Dist. Bharuch, Pin: 393110 Gujarat state (India) Distributed by: Univar Solutions USA 3075 Highland Pkwy Ste 200 Downers Grove, IL 60515 Telephone: 1-855-429-2661 Emergency phone number: CHEMTREC 1-800-424-9300	

	Classification of the substance or mixture Regulation (EC) No 1272/2008: This substance is classified as not hazardous according to regulation (EC) 1272/2008 . The product is not classified as hazardous according to the Globally Harmonized System(GHS). Classification according to Directive 1272/2008/EC : This substance is classified as not hazardous according to regulation (EC) 1272/2008 . Label elements : This substance is classified as not hazardous according to regulation (EC) 1272/2008 : Label elements : Not applicable. GHS label element : Not applicable. Hazard Pictogram - None required. Signal word : Not applicable. Other Hazard statements : May form combustible /explosible dust concentrations if dispersed in air. Information concerning particular hazards for human and environment : Not applicable. Hazard statements: May cause respiratory irritation if dusting inhaled. Precautionary statements: Read label before use. Avoid breathing dust. If Inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a doctor/physician if you feel unwell. GHS Classification in accordance with 29 CFR 1910 (OSHA HCS) : Combustible dust Precautionary statements: None Emergency Overview: Warning! Powdered material may form explosive dust-air mixtures. Combustible solid. Potential Health Effect: No adverse health effects expected. Substance meets the criteria for vPvB and PBT according to Regulation (EC) No. 1907/2006, Annex III. According to NFPA 68, (Explosion Venting Guide), the Hazard Class of Dust Deflagrations for Microcrystalline cellulose is St-1, the Classification according to Directive 67/548/EEC or Directive 1999/45/EC : Not listed as hazardous
03	COMPOSITION / INFORMATION ON INGREDIENTS
	Chemical characterization : White to almost white, fine or granular, free flowing non fibrous particles /powder. Compositions : Pure Substance (Single substance) Synonyms : Cotton linters, Cellulose powder Therapeutic Category : Drug excipient (Tablet and Capsule diluents), Food additive. Mixtures : Not applicable
04	FIRST AID MEASURES

	Description of first aid measures General information : No special measures required. After inhalation : Supply fresh air; consult doctor in case discomfort occurs and persists. After skin contact : Wash with plenty of water. Use soap solution if required. After eye contact : Rinse opened eye for several minutes under running water. Consult doctor if irritation occurs and persists. After swallowing : Have a person sip a glass of water. If any discomfort persists consult doctor. General Advice : When in doubt or if symptoms are observed, get medical advice. Information for doctor: Most important symptoms and effects, both acute and delayed. No further relevant information available. Indication of any immediate medical attention and special treatment needed No further relevant information available.
05	FIRE FIGHTING MEASURES
	Suitable extinguishing agents: CO₂, any media suitable for extinguishing or water spray. Special hazards arising from the substance or mixture: No further relevant information available. Advice for firefighters Use protective equipment against the hazard of heat. Do not breathe smoke/gas generated.
06	ACCIDENTAL RELEASE MEASURES
	Personal precautions, protective equipment and emergency procedures: Evacuate personnel to safe area. Provide adequate ventilation. Environmental precautions : Reduce airborne dust and prevent scattering by moistening with water. Methods and material for containment and cleaning up : Pick up mechanically. Sweep up the spilled material. Wash spilled area with soap and water. Reference to other sections: See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.
07	HANDLING AND STORAGE
	Handling: Precautions for safe handling : To be handled as per labeled instruction Information about protection against explosions and fires: No special measures required. Conditions for safe storage, including any incompatibilities Storage: Store protected from light and moisture Requirements to be met by storerooms and receptacles: Keep unexposed Information about storage in one common storage facility: No special measures required. Further information about storage conditions: Store protected from light and moisture Specific end use(s) : As food additive, pharma excipient
08	Exposure controls / personal protection

Additional information about design of technical systems: No further data; See item 7.

Control parameters

Components with limit values that require monitoring at the workplace:

PEL	Long-term value: 15* 5** mg/m ³ , *total dust **Respirable fraction
REL	Long-term value: 10* 5** mg/m ³ , *total dust **Respirable fraction
TLV	Long-term value: 10 mg/m ³

Exposure controls : Prevent from dusting.

Personal protective equipment: Nose mask, safety glasses, Gloves

General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Breathing equipment: Nose mask to prevent inhale of dusting.

Protection of hands: Gloves should be used. Replace the gloves considering the penetration times, rates of diffusion and the degradation

Material of gloves: The glove material has to be impermeable and resistant to the substance.

Penetration time of glove material

The exact break through time has to be decided by the user of the protective gloves and has to be observed.

Eye protection: Use safety glasses while handling.

09 **PHYSICAL AND CHEMICAL PROPERTIES**

Information on basic physical and chemical properties

General Information

- **Appearance:**
- **Form:** Powder
- **Color:** White to off white
- **Odor:** Odorless
- **Odor threshold:** Not determined.
- **pH-value at 20 °C (68 °F):** Between 5 and 7.5 (10% solids dispersion in water for E460 i
Between 5 and 7.5 (12.5% solids dispersion in water for pharmacopoeia)

Corporate Office: SIGACHI INDUSTRIES LIMITED

📍 Plot No. G57/2, Industrial Park, Sultanpur, Hyderabad, Sangareddy (Dist), Telangana - 502319.

☎ Tel No.: +91-8455-242055 / 56 / 57 🌐 URL: www.sigachi.com

	Change in condition • Melting point/Melting range : Not available • Boiling point/Boiling range : Undetermined. • Flash point : Not applicable. • Flammability (solid, gaseous): Product is not flammable. • Ignition temperature : 340 °C (644 °F) • Decomposition temperature : > 260°C • Auto igniting : Not determined. • Danger of explosion : Product does not present an explosion hazard. Explosion limits: Lower : Not determined. Upper :Not determined. Vapor pressure :Not applicable. • Density : 0.25 – 0.5 g/ml • Relative density : Not determined. • Vapour density : Not applicable. • Evaporation rate : Not applicable. • Solubility in / Miscibility with Water :Soluble in ammonical copper tetramine solution / Insoluble. • Partition coefficient (n-octanol/water): Not determined. • Viscosity: Dynamic :Not applicable. Kinematic :Not applicable. • Organic solvents : 0.0 % • Solids content : 100.0 % • Other information: No further relevant information available.
10	STABILITY AND REACTIVITY
	Reactivity : No information known Chemical stability: Stable under recommended storage condition Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications. Possibility of hazardous reactions: No dangerous reactions known. Conditions to avoid: Avoid exposure to light and moisture Incompatible materials: Strong oxidizers, water Hazardous decomposition products: May emit toxic fumes under fire conditions.
11	TOXICOLOGICAL INFORMATION

	Information on toxicological effects Acute toxicity: No significant acute toxicological effects are expected. LD50 Oral: LD50 > 5000 mg/kg (Rat) LD50 Dermal: LD50 > 2000 mg/kg (Rabbit) LC50 Inhalation: LC50 > 5800 mg/m ³ (Rat) 4 h Primary irritant effect: - On the skin: No irritant effect. - On the eye: No irritating effect. - Sensitization: No sensitizing effects known. Additional toxicological information: Microcrystalline cellulose is negative in the Ames mutagenicity assay, and caused no chromosome damage in the mouse micronucleus assay. Microcrystalline cellulose is considered an inert dust, which is not toxic to the lung when exposures are properly controlled. No adverse effect if administered as diet. No adverse human effects are known. Carcinogenic categories - IARC (International Agency for Research on Cancer) : Substance is not listed. - NTP (National Toxicology Program) : Substance is not listed.
12	ECOLOGICAL INFORMATION
	Toxicity Aquatic toxicity : No further relevant information available. Persistence and degradability: No further relevant information available. Behavior in environmental systems: Bioaccumulative potential : No further relevant information available.
	Mobility in soil : Easily biodegradable Additional ecological information: Results of PBT and vPvB assessment PBT(Persistent, bioaccumulative and toxic) : Not applicable. vPvB(Very persistent and Very bioaccumulative): Not applicable. Other adverse effects : No further relevant information available.
13	DISPOSAL CONSIDERATION
	Waste treatment methods Recommendation: Dispose of waste in compliance with all applicable local laws. Un-cleaned packaging: Recommendation: Disposal must be made according to official regulations. Recommended cleansing agent: Water, if necessary with cleansing agents. Disposal Method : No special disposal methods are suggested. It is the user's responsibility to comply with all applicable local, state, and federal laws, rules, regulations and standards.
14	TRANSPORT INFORMATION

	UN-Number : DOT, ADR, ADN, IMDG, IATA : Not regulated UN proper shipping name : DOT, ADR, ADN, IMDG, IATA : Not regulated Transport hazard class(es) :DOT, ADR, ADN, IMDG, IATA Class : Not regulated Packing group : DOT, ADR, IMDG, IATA : Not regulated Environmental hazards: Marine pollutant: No Special precautions for user : Not applicable. Transport in bulk according to Annex II ofMARPOL73/78 and the IBC Code :Not applicable. UN "Model Regulation": ---
15	REGULATORY INFORMATION Safety, health and environmental regulations/legislation specific for the substance or mixture SARA (Safety analysis risk assessment) Section 355 (extremely hazardous substances): Substance is not listed. Section 313 (Specific toxic chemical listings): Substance is not listed. E numbers : E460 Proposition 65 - Chemicals known to cause cancer: Substance is not listed. - Chemicals known to cause reproductive toxicity for females: Substance is not listed. - Chemicals known to cause reproductive toxicity for males: Substance is not listed. - Chemicals known to cause developmental toxicity: Substance is not listed. Carcinogenic categories - EPA (Environmental Protection Agency): Substance is not listed. - TLV (Threshold Limit Value established by ACGIH): Substance is not listed. - NIOSH-Ca (National Institute for Occupational Safety and Health): Substance is not listed. - OSHA-Ca (Occupational Safety & Health Administration): Substance is not listed. - Substances of very high concern (SVHC) according to the REACH regulations EC 1907/2006 for the manufacturing, placing on the market and use must be observed. : Substance is not listed. GHS label elements : Refer to item 02. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.
16	OTHER INFORMATION This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Department issuing SDS: Product safety department Date of preparation : 01.04.2023 Abbreviations and acronyms: Given at the place ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road ACGIH: American Conference of Governmental Industrial Hygienists

For Sigachi Industries Limited,

MD Rafiq Patel

13/01/2024

MD Rafiq Patel
AGM-QA



END OF THE DOCUMENT

Corporate Office: SIGACHI INDUSTRIES LIMITED

Plot No. G57/2, Industrial Park, Sultanpur, Hyderabad, Sangareddy (Dist), Telangana - 502319.



Tel No.: +91-8455-242055 / 56 / 57



URL: www.sigachi.com