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SIGACHI INDUSTRIES PVT. LTD.

SAFETY DATA SHEET

Reviewed On: 20.05.2015

Document No.: SHS/MCC/00

Product: Microcrystalline Cellulose

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IDENTIFICATION:

Product identifier:

Product Name: Microcrystalline Cellulose Powder

Trade name: HiCel/AceCel 50M/101, 90M/102, XLM90/112,LP200/200

Article number: M01 CAS 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 PVT. LTD.

Plot No.20, Phase 1, IDA, Pashammailaram-502307, T.S, India.

Information department: Product safety department Emergency telephone number:, 9392259755

02 **HAZARD(Z) IDENTIFICATION:**

Classification of the substance or mixture



GHS07

STOT SE 3 H335 May cause respiratory irritation.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC: Information concerning particular hazards for human and environment: Not applicable.

Label elements

GHS label elements The substance is classified and labeled according to the Globally Harmonized System (GHS) Hazard pictograms



GHS07

Signal word : Warning

Hazard statements: May cause respiratory irritation.

Precautionary statements: If medical advice is needed have product container or label at hand. Keep out of reach of children. 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. Store locked up. Store in a well-ventilated container tightly closed. Dispose contents/container accordance local/regional/national/international regulations.

Classification system:

NFPA ratings (scale 0 - 4)

NFPA

HMIS ratings (scale 0 - 4)



- Other hazards
- Results of PBT and vPvB assessment

PBT: Not applicable. vPvB: Not applicable.



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Chemical characterization: Substances Compositions : Pure Substance

Synonyms : Cotton linters, Cellulose powder

Therapeutic Category : Drug excipient (Tablet and Capsule diluents), Food additive,

FIRST AID MEASURES 04

Description of first aid measures

: No special measures required. General information

After inhalation : Supply fresh air; consult doctor in case of complaints. After skin contact : May cause irritation. Flush with plenty of water.

After eye contact : Causes irritation. Rinse opened eye for several minutes under running water.

: If symptoms persist consult doctor. After swallowing

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.

FIRE FIGHTING MEASURES 05

Extinguishing media

- Suitable extinguishing agents:
 - CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- Special hazards arising from the substance or mixture : No further relevant information available.
- Advice for firefighters

Protective equipment : No special measures required.

ACCIDENTAL RELEASE MEASURES 06

- Personal precautions, protective equipment and emergency procedures: Not required.
- **Environmental precautions**

: No special measures required.

: Pick up mechanically.

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- Methods and material for containment and cleaning up : No dangerous substances are released.
- 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.

HANDLING AND STORAGE 07

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

: 15-35°C

Requirements to be met by storerooms and receptacles Information about storage in one common storage facility : Keep unexposed : Not required.

Further information about storage conditions

: Store protected from light and moisture

Specific end use(s)

: No further relevant information available.

Exposure controls / personal protection 08

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/m³, *total dust **Respirable fraction
REL	Long-term value: 10* 5** mg/m³, *total dust **Respirable fraction
TLV	Long-term value: 10 mg/m³

Additional information: The lists that were valid during the creation were used as basis.



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- **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 chemical /the substance/ the preparation.

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: Not required.

PHYSICAL AND CHEMICAL PROPERTIES 09

- Information on basic physical and chemical properties
- **General Information**
- Appearance:

Form : Powder Color : White Odor : Odorless Odor threshold : Not determined.

pH-value at 20 °C (68 °F) : Between 5 and 7.5 (12.5% solids dispersion)

Change in condition

Melting point/Melting range: Chars at 260 - 270°C 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. : 0.25 - 0.5**Density** 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

: No information known Reactivity

Chemical stability : Stable

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.



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11 TOXICOLOGICAL INFORMATION

- Information on toxicological effects
- Acute toxicity: LD50 Oral rat > 5.000 mg/kg , LD50 Dermal rabbit > 2.000 mg/kg
- Primary irritant effect:
- On the skinOn the eye: No irritant effect.: 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:
- General notes : Generally not hazardous for water
- Results of PBT and vPvB assessment
- PBT : Not applicable.vPvB : 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.
- Uncleaned packagings:
 - 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 of MARPOL73/78 and the IBC Code : Not applicable.

UN "Model Regulation": ---



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15 REGULATORY INFORMATION

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

SARA

Section 355 (extremely hazardous substances) : Substance is not listed.

Section 313 (Specific toxic chemical listings) : Substance is not listed.

TSCA (Toxic Substances Control Act) : Substance is listed.

Proposition 65

Chemicals known to cause cancer : Substance is not listed.
Chemicals known to cause reproductive toxicity for females
Chemicals known to cause reproductive toxicity for males
Chemicals known to cause developmental toxicity : Substance is not listed.
Substance is not listed.
Substance is not listed.

• Carcinogenic categories

EPA (Environmental Protection Agency)
 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 MSDS: Product safety department **Date of preparation / last revision**: 20/05/2015 / 01.12.2014

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International

Carriage of Dangerous Goods by Road)

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

