



Maple Biotech Pvt. Ltd.

Works: J-253, M.I.D.C. Bhosari, Pune 411 037, India

Phone: + 91 20 27470010, Fax: + 91 20 27450510, Phone: +91 86699 59208

E-mail: sales@maplebiotech.co.in

Website: www.maplebiotech.co.in

MATERIAL SAFETY DATA SHEET

CARBOXY METHYL CELLULOSE CALCIUM SALT

Carmellose Calcium

According to the European Directive 1907/2006/ EC

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Carmellose Calcium; Carboxymethylcellulose Calcium Salt

Product Use: Excipient for Pharmaceuticals

Product Description: Powder of Carbohydrate, Cellulose Derivative

Manufacturer: Maple Biotech Pvt. Ltd.

J-253, MIDC, Bhosari, Pune 411 026, India

Phone: + 91 20 2713 0210

FAX: + 91 20 2713 0410

E-mail: sales@maplebiotech.co.in

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008

This substance is not classified as dangerous according to Directive 67/548/EEC

2.2 Labelling according to Regulation (EC) No 1272/2008



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Pictogram None

Signal word None

Hazards not otherwise classified (HNOC):

H316 May causes mild skin irritation.

H320 May causes mild eye irritation

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P262 Do not get in eyes, on skin, or on clothing.

P281 Use personal protective equipment as required.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+313 If eye irritation persists get medical advice/attention.

2.3 Other hazards This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3. Composition, Information on Ingredients

CHEMICAL FAMILY: Cellulose Derivative

MOLECULAR FORMULA: $[C_6H_7O_2(OH)_v(OCH_2COOCa)_w(OCH_2COOH)_y(OCH_2COO)_z]_x$

SYNONYM(S): carboxymethylcellulose calcium; Cellulose, carboxymethyl ether, calcium salt; Cellulose carboxymethyl ether calcium salt [9050-04-8].

BRAND NAME(S): MYLCEL

GENERAL USE: Disintegrant/Dispersant for dietary supplement tablets and capsules.

<u>Chemical Name</u>	<u>CAS#</u>	<u>EC Class</u>
Carboxymethylcellulose calcium	9050-04-8	Not classified as hazardous



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SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures

- General advice** : Consult a physician. Show this material safety data sheet to the doctor in attendance
- If inhaled** : If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
- In case of eye contact** : Rinse with plenty of water. Immediately call in ophthalmologist. Remove contact lenses if any.
- In case of skin contact** : Take off immediately all contaminated clothing. Wash off with soap and plenty of water. Consult a physician.
- If swallowed** : Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed : The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed : No data available

SECTION 5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide

5.2 Special hazards arising from the substance or mixture : Thermal decomposition can lead to release of irritating gases and vapors, Carbon oxides, Calcium oxide

5.3 Advice for firefighters : Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing

5.4 Further information : No data available

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures : Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection see section 8



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- Environmental precautions** : Do not let product enter drains
- 6.3 Methods and materials for containment and cleaning up** : Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
- 6.4 Reference to other sections** : For exposure controls and personal protection see Section 8 and for disposal see section 13

SECTION 7. HANDLING AND STORAGE

- 7.1 Precautions for safe handling** : Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.
- 7.2 Conditions for safe storage, including any area accessible only to qualified or authorized persons. incompatibilities** : Tightly closed. Keep in a well-ventilated place. Keep locked up or in an **including** Store in cool dry place in tightly closed containers
- 7.3 Specific end use** : Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- 8.1 Control parameters**
- Exposure limits**
- Contains no substances with occupational exposure limit values.
- 8.2 Exposure controls**
- Appropriate engineering controls** : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday
- Personal protective equipment**
- Eye/face protection** : Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Tightly fitting safety goggles



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Skin protection	:	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
Body protection	:	Complete suit protecting against chemicals,
Respiratory Protection	:	For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Control of environmental exposure	:	Do not let product enter drains

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	:	White to Yellowish white Hygroscopic powder
Odour	:	Odourless
Odour Threshold	:	No data available
pH	:	Less than 7 at 10 g/l
Freezing/Melting Point	:	No data available
Initial Boiling point and boiling range	:	No data available
Flash point	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
Upper/lower flammability or explosive limits	:	No data available
Vapour pressure	:	No data available
Vapour density	:	No data available
Relative density	:	0.4 g/cc
Water solubility	:	1-10
Partition coefficient: n-octanol/water	:	No data available
Auto-ignition temperature	:	320°C
Decomposition temperature	:	No data available
Viscosity	:	No data available
Explosive properties	:	No data available
Oxidizing properties	:	No data available



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9.2 Other safety information : No data available

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity : No data available

10.2 Chemical Stability : Stable under recommended storage conditions

10.3 Possibility of hazardous reactions : No data available

10.4 Conditions to avoid : No data available

10.5 Incompatibility materials : Strong oxidizing agents

10.6 Hazardous decomposition products : Hazardous decomposition products formed under fire conditions. -

Carbon oxides, Calcium oxide

In the event of fire: see section 5

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity : LD50 Oral - Rat – 4,400 mg/kg

Skin corrosion/irritation : No data available

Serious eye damage/eye irritation : No data available

Respiratory or skin sensitization : No data available

Germ cell mutagenicity : No data available

Carcinogenicity : IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity : No data available

Specific target organ toxicity single exposure : No data available

Specific target organ toxicity repeated exposure : No data available

Additional Information : RTECS: No data available

Aspiration hazard : No data available

OTHER: ACGIH: Not listed

COMMENTS: No data available for this product. The data presented above are based on a similar product,



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14.3Transport hazard class(es) 1 14 14.3Transport hazard class(es)

14.3Trans
14.4 Packaging group 1 14.4 Pack 14 14.4 Packaging group
14.5 Environmental hazards 1 14.5 Envi 14 14.5 Environmental hazards 14.6Special precautions for user

1 14.6Spec 14 14.6Special precautions for user

SECTION 15. REGULATORY INFORMATION

15.1 Safety, health and environmental : 15.2 Chemical Safety Assessment

regulations/legislation specific for the
substance or mixture :

This material safety data sheet complies with the requirements of
Regulation (EC) No. 1907/2006

National legislation Seveso III: Directive 2012/18/EU of the
European Parliament and of the Council on the control of
majoraccident hazards involving dangerous substances

Other regulations

E1ENVIRONMENTALHAZARDS

:
Observe work restrictions regarding maternity protection in
accordance to Dir 92/85/EEC or stricter national regulations where



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applicable. Take note of Dir 94/33/EC on the protection of young people at work For this product a chemical safety assessment was not carried out

SECTION 16.

OTHER INFORMATION

Definitions: - N/A = Not Applicable; N/D = Not Determined N/E = Not Established

Disclaimer: This safety data sheet is provided as an information resource only. The information mentioned above is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This information is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. ExSyn Corp. shall not be held liable for any damage resulting from handling or from contact with the above product. User is responsible for determining whether this product is fit for a particular purpose and suitable for user's method of use or application.

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