



MATERIAL SAFETY DATA SHEET

Product Name: **MICROCRYSTALLINE CELLULOSE**

Date/ Revised: 02/03/2010

1. Product and Company Identification

Product name..... MICROCRYSTALLINE CELLULOSE
Product brand..... MICROCEL
Product code..... MC-12, MC-101, MC-101SP, MC-102, MC-102S, MC-102SP, MC-103, MC-104, MC-112, MC-122, MC-132, MC-200, MC-212, MC-250, MC-301, MC-302, MC-500, FG-201
Product use..... Compression and compaction agent for tablets.

Manufacturer..... Blanver Farmoquímica Ltda.
Adress..... Rua Dr. José Alexandre Crosnag, 715
CEP: 06680.035 - ITAPEVI/SP – BRASIL
Telephone number..... 55 – 11 - 4144-9400
E-mail..... blanver@blanver.com
Emergency contact.....

- Brazil:
Phone: 55 - 11 - 4144-9400/ Fax: 55 - 11 – 4144-9401
E-mail: bfl@blanver.com.br
- USA:
Phone: 1- 561 - 862-0004/ Fax: 1 – 561 - 862-0879
E-mail: passos@blanver.com
- Spain:
Phone: 34 – 93 - 241-3715/ Fax: 34 – 93 - 414-7036
E-mail: pere@blanver.com

2. Hazards Identification

Most important hazards..... None
Effects of the product:

- Adverse effects to human health..... None
- Environmental effects..... None
- Physical and chemical hazards..... None

Specific hazards..... None
Main symptoms..... May cause eyes irritation.

3. Composition/ Information on Ingredients

Substance..... Cellulose
Chemical name..... Microcrystalline Cellulose
Category..... Organic, carbohydrate
Synonymous..... None
CAS registry number..... 9004-34-6
Impurities which contribute to the hazard..... None

4. First Aid Measures

First Aid Measures..... No special measures required.

- If inhaled..... Supply fresh air. Consult a doctor in case of symptoms.
- On skin contact..... Wash skin area with water and soap.
- Skin absorption..... No evidence of adverse effects.
- On eyes contact..... Rinse with water keeping the eyelids wide open. Irritation may occurs, if persists consult a doctor.
- On ingestion..... If victim is conscious, give water to drink. Get medical aid.

Notes to physician..... No specific recommendations.



MATERIAL SAFETY DATA SHEET

Product Name: **MICROCRYSTALLINE CELLULOSE**

Date/ Revised: 02/03/2010

5. Fire Fighting Measures

Suitable extinguish media.....	Water, foam and dry chemical.
Unsuitable extinguish media.....	None
Specific dangerous.....	Keep away from ignition sources.
Special methods for fighting fire.....	None
Protective equipment for firefighters.....	Wear full protective clothing and NIOSH/MSHA approved respirator.
Hazardous combustion products.....	Accumulation of settled dust in the air, may form explosive concentrations.

6. Accidental Release Measures

Personal precautions.....	Avoid causing dust and ensure adequate ventilation. Remove all ignition sources.
Environmental precautions.....	No special measures required.
Emergency procedures and alarm systems.....	No special measures required.
Methods for clean-up.....	Minimize accumulation of settled dust. Wear protective clothing. Absorb with inert material. Sweep material to a trash container. After collected and discarded, wash the area with water.
Leak/ Spill.....	Avoid contact with water until all material has been collected and discarded. Area can then be washed down with water.

7. Handling and Storage

Handling:	
• Handling procedures.....	Handle the product carefully in accordance with good industrial hygiene practices and avoid personal contact.
• Precautions and guidelines for safe handling.....	Wash hands thoroughly after handling. Use local exhaust ventilation. Use appropriate equipment.
Storage:	
• Storage procedures.....	Store in a dry and ventilated area to maintain the integrity of the product. Avoid excessive heat. Preserve in tight containers under the right conditions.

8. Exposure Controls/ Personal Protection

Exposure limits.....	OSHA PEL: TWA 15 mg/m ³ (total) TWA 5 mg/m ³ (resp) NIOSH REL: TWA 10 mg/m ³ (total) TWA 5 mg/m ³ (resp)
Specific engineering controls.....	Dust mask or respirator approved by NIOSH/MSHA are required to maintain exposure standards.
Personal protective equipment:	
• Skin protection.....	Appropriate dust resistant clothing and protective gloves.
• Eyes protection.....	Safety goggles.
• Respiratory protection.....	Dust mask or respirator approved by NIOSH/MSHA is required (in the absence of proper environmental controls).

9. Physical and Chemical Properties

Appearance.....	White, non fibrous powder
Odor.....	Odorless
pH.....	5,0 - 7,5 (5g/ 40ml of water)
Flash point.....	Not flammable
Auto ignition temperature.....	340 °C



MATERIAL SAFETY DATA SHEET

Product Name: **MICROCRYSTALLINE CELLULOSE**

Date/ Revised: 02/03/2010

9. Physical and Chemical Properties

Flammability.....	Not flammable
Upper/ Lower flammable limit.....	Not flammable
Rate of burning.....	Not available
Sensitivity to static.....	None
Sensitivity to impact.....	None
Solubility.....	Insoluble in water, partially soluble in alkalis.

10. Stability and Reactivity

Chemical stability.....	Stable under ordinary conditions of use and storage.
Reactivity.....	Strong oxidizers.
Possibility of hazardous reactions.....	No
Conditions to avoid.....	Heat, flame and ignition sources.
Incompatibilities.....	Strong oxidizing agents.
Hazardous decomposition products.....	Carbon monoxide and dioxide may form when heated to decomposition.
Hazardous polymerization.....	Will not occur.

11. Toxicological Information

Acute toxicity (LD 50/ rat – oral).....	The material is not considered to be toxic, according to definitions listed in 16CFR 1500.3 (C) (2) (1).
Effects of acute exposure.....	No adverse effects are expected from occupational exposures.
Effects of chronic exposure.....	No adverse effects from available information.
Carcinogenicity.....	Not listed on NTP, IARC or OSHA.
Reproductive effects.....	None
Sensitizing capability of material.....	None
Synergistic materials.....	None

12. Ecological Information

Environmental effects.....	The product is not hazardous for the ecosystem.
----------------------------	---

13. Treatment and Disposal Considerations

Treatment and disposal considerations:	
• Product.....	Could be disposed off by industrial trash or incinerated, in accordance with local regulations.
• Package.....	Could be disposed off by industrial trash or incinerated, in accordance with local regulations.
• Waste disposal.....	In accordance with municipal, provincial and federal regulations.

14. Transport Information

National and international regulations.....	Not regulated. Product not classified as hazardous under transport regulations.
---	---



MATERIAL SAFETY DATA SHEET

Product Name: **MICROCRYSTALLINE CELLULOSE**

Date/ Revised: 02/03/2010

15. Regulatory Information

WHMIS Classification..... This is not a controlled product.
CPR Compliance..... This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all of the information required by those regulations.
Preparation..... This MSDS has been prepared to meet the requirements of the Brazilian Regulatory Standard 14725-4:2009 and the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.2000.

16. Other Information

NFPA (National Fire Protection Association):

- Health..... 0
- Flammability..... 1
- Reactivity..... 0
- Special..... None

The information contained here in is based on the present state of our knowledge and does not therefore guarantee certain properties. This information does not relieve the user from observing all legal, regulatory and administrative procedures for product safety, hygiene, human protection and the environment.