

MATERIAL SAFETY DATA SHEET

Aquacoat® CPD Cellulose Acetate Phthalate Aqueous Dispersion

FMC BioPolymer

MSDS Ref. No.: 9004-38-0
Date Approved: 01/31/2006
Revision No.: 7

This document has been prepared to meet the requirements of the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200; the Canada's Workplace Hazardous Materials Information System (WHMIS) and, the EC Directive, 2001/58/EC.

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Aquacoat® CPD Cellulose Acetate Phthalate Aqueous Dispersion
CHEMICAL FAMILY: Cellulose derivative, surfactant
SYNONYMS: Cellacefate: Cellulose Acetate Phthalate
GENERAL USE: Pharmaceutical coating

MANUFACTURER

FMC BioPolymer
1735 Market Street
Philadelphia, PA 19103
(800) 526-3649 (General Information)

FMC Europe NV
Avenue Mounier 83
1200 Brussels, Belgium
+32 2 / 775 8311 (General Information - Brussels)

EMERGENCY TELEPHONE NUMBERS

(302) 451-0100 (FMC Plant - Newark, Delaware)
(303) 595-9048 (Medical - U.S. - Call Collect)

For leak, fire, spill, or accident emergencies, call:
(800) 424-9300 (CHEMTREC - U.S.A. & Canada)
(703) 527-3887 (CHEMTREC - All Other Countries)

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

- White liquid with a faint characteristic odor.

POTENTIAL HEALTH EFFECTS: No significant health hazard expected.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Wt.%	EC No.	EC Class
Cellacefate	9004-38-0		None	Not classified
Poloxamer	9003-11-6		None	Not classified
Water	7732-18-5		231-791-2	Not classified

4. FIRST AID MEASURES

EYES: Flush with water for at least 15 minutes. If irritation occurs and persists, obtain medical attention.

SKIN: Wash with plenty of soap and water. Get medical attention if irritation occurs and persists.

INGESTION: Drink plenty of water. Never give anything by mouth to an unconscious person. If any discomfort persists, obtain medical attention.

INHALATION: Remove to fresh air. If breathing difficulty or discomfort occurs and persists, obtain medical attention.

NOTES TO MEDICAL DOCTOR: This product is expected to have low oral, dermal and inhalation toxicity. Treatment is symptomatic and supportive.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Water

FIRE / EXPLOSION HAZARDS: No known hazard

FIRE FIGHTING PROCEDURES: For fires involving this material, do not enter any enclosed or confined fire space without wearing full protective clothing and self-contained breathing apparatus (SCBA) approved for firefighting. This is necessary to protect against the hazards of heat, products of combustion and oxygen deficiency. Do not breathe smoke, gases or vapors generated.

FLAMMABLE LIMITS: Not applicable

6. ACCIDENTAL RELEASE MEASURES

RELEASE NOTES: Mop up the spilled material and dispose of in accordance with the waste disposal method outlined in Section 13, "Disposal Considerations" below.

7. HANDLING AND STORAGE

HANDLING AND STORAGE: Use only in systems, processes and procedures for which effective ventilation has been provided. Always use safe lifting techniques when manually moving containers, especially when shipping containers weighing more than 50 pounds (22.7 kg).

Keep tightly closed. Store refrigerated at approximately 5°C (41°F). DO NOT FREEZE. Do not expose to temperatures above 35°C (95°F). Expiration Date: 18 months after manufacture.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Appropriate protective eyewear, such as goggles or glasses with side shields, should be worn to prevent eye contact.

RESPIRATORY: No significant hazard expected; however, for protection against splash, spray or mist exposure, workers should wear respirators that are approved by U.S. NIOSH / MSHA, EU CEN or comparable certification organization.

PROTECTIVE CLOTHING: No special clothing is required.

GLOVES: No special gloves are required.

COMMENTS:

EXPOSURE LIMITS:

Particulates Not Otherwise Classified (PNOC):

ACGIH/TWA

10 mg/m³ (inhalable particulate)

3 mg/m³ (respirable particulate)

9. PHYSICAL AND CHEMICAL PROPERTIES

ODOR:	Faint, characteristic
APPEARANCE:	White liquid
AUTOIGNITION TEMPERATURE:	Not applicable
BOILING POINT:	100°C (coagulates)
COEFFICIENT OF OIL / WATER:	Not applicable
EVAPORATION RATE:	Not applicable (Butyl Acetate = 1)
FAT SOLUBILITY:	Not applicable
FLASH POINT:	Not applicable
MELTING POINT:	Not applicable
OXIDIZING PROPERTIES:	Not applicable
PERCENT VOLATILE:	Approximately 70% water, by weight
pH:	~ 2.0 - 3.0 (as is)
SOLUBILITY IN WATER:	(% by weight) Insoluble
SPECIFIC GRAVITY:	(H ₂ O = 1) 1.08
VAPOR DENSITY:	Not applicable (Air = 1)
VAPOR PRESSURE:	Not applicable

COMMENTS:

EXPLOSIVE PROPERTIES: Not applicable

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID:	None known
STABILITY:	Stable
HAZARDOUS DECOMPOSITION PRODUCTS:	None known.

11. TOXICOLOGICAL INFORMATION

EYE EFFECTS: Non-irritating (rabbit)

SKIN EFFECTS: Non-irritating (rabbit)

DERMAL LD₅₀: > 2,000 mg/kg (rabbit)

ORAL LD₅₀: > 5,000 mg/kg (rat)

INHALATION LC₅₀: > 5.21 mg/l (4 h) (rat) Maximum attainable concentration - zero mortality

SENSITIZATION: Skin: Non-sensitizing (guinea pig)

ACUTE EFFECTS FROM OVEREXPOSURE: No significant health effects expected.

CHRONIC EFFECTS FROM OVEREXPOSURE: No chronic data available on the aqueous formulation. On a dry basis, the product was not teratogenic at dosages up to and including 50,000 ppm in rats. In a 90-day feeding study in rats, the No Observed Adverse Effect Level (NOAEL) was in excess of 50,000 ppm. This material (on a dry basis) was not mutagenic in the Ames and mouse lymphoma assays, and did not cause chromosome damage in a mouse micronucleus test.

CARCINOGENICITY:

NTP:	Not listed
IARC:	Not listed
OSHA:	Not listed
OTHER:	(ACGIH) Not listed

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: No data available for the formulation. The components of this formulation are not expected to have significant environmental effects.

ECOTOXICOLOGICAL INFORMATION: No data available for the formulation. No significant effects on aquatic organisms expected.

13. DISPOSAL CONSIDERATIONS

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

U.S. DEPARTMENT OF TRANSPORTATION (DOT)

PROPER SHIPPING NAME: National Motor Freight Classification Item 149980, Sub 2.

MARINE POLLUTANT: None

ADDITIONAL INFORMATION: Not listed in Title 49 of the U.S. Code of Federal Regulations as a hazardous material.

INTERNATIONAL MARITIME DANGEROUS GOODS (IMDG)

ADDITIONAL INFORMATION: Not applicable

ADR - EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD

ADDITIONAL INFORMATION: Not applicable

INTERNATIONAL CIVIL AVIATION ORGANIZATION (ICAO) / INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA)

ADDITIONAL INFORMATION: Not applicable

OTHER INFORMATION:

Canada (TDG) : Not applicable

15. REGULATORY INFORMATION

EC Risk Phrases: (Not classified as hazardous)

EC Safety Phrases: (Not classified as hazardous)

16. OTHER INFORMATION

NFPA

Health	0
Flammability	1
Reactivity	0
Special	None

No special requirements

NFPA = National Fire Protection Association

Degree of Hazard Code:

4 = Extreme

3 = High

2 = Moderate

1 = Slight

0 = Insignificant

REVISION SUMMARY:

This MSDS replaces Revision #6, dated February 02, 2005.

Changes in information are as follows:

Section 1 (Product and Company Identification)

Section 3 (Composition / Information on Ingredients)

Section 8 (Exposure Controls / Personal Protection)

Section 14 (Transport Information)

Section 15 (Regulatory Information)

Section 16 (Other Information)

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