

# Material Safety Data Sheet

Kelcoloid® K3B426

MSDS #: 9133474AEU-B

Revision Date: 2014-02-21

Version 1



This MSDS has been prepared to meet U.S. OSHA Hazard Communication Standard 29 CFR 1910.1200 And Canadian Workplace Hazardous Materials Information System (WHMIS) requirements.

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name** Kelcoloid® K3B426

**Synonyms** Propylene glycol alginate (INCI name), : Alginic acid propylene glycol ester; Hydroxypropyl alginate; 1,2-Propanediol alginate; Propylene alginate; 1,2-Propylene glycol alginate; Propyleneglycol alginate; Algin, PGA; Hydroxypropyl Alginate

**Recommended use:** Pharmaceutical.

### Manufacturer

FMC Corporation  
1735 Market Street  
Philadelphia, PA 19103  
(800) 526-3649  
msdsinfo@fmc.com

### Emergency telephone number

(207) 594-3200 (FMC Plant - Rockland, ME)  
(303) 595-9048 (Medical - U.S. - Call Collect)

For leak, fire, spill, or accident emergencies, call:

(800) 494-9300 (CHEMTREC - U.S.A. & Canada)  
(703) 527-3887 (CHEMTREC - all other countries)

## 2. HAZARDS IDENTIFICATION

### Emergency Overview

Powder becomes slippery when wet.

Dry or powdered ingredients are combustible. Dispersal of finely divided dust from products into air may form mixtures that are ignitable and explosive. Minimize airborne dust generation and eliminate sources of ignition.

**Appearance** dry powder

**Physical state** dry powder

**Odor** Not identified

**Eyes** May cause slight irritation.

**Skin** Non-irritating to the skin.

**Ingestion** None under normal use conditions.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Non-Hazardous

Chemical Name	CAS-No
Propylene glycol alginate	9005-37-2

#### 4. FIRST AID MEASURES

<b>Eye contact</b>	Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
<b>Skin contact</b>	Wash with water and soap as a precaution.
<b>Inhalation</b>	Move to fresh air. If breathing is irregular or stopped, administer artificial respiration. Consult a physician.
<b>Ingestion</b>	Never give anything by mouth to an unconscious person. Drink plenty of water. Get medical attention if symptoms occur.
<b>Indication of immediate medical attention and special treatment needed, if necessary</b>	Treat symptomatically. This product has low oral toxicity and it may be irritating to the eyes. Ingestion of large quantities of alginates may cause intestinal obstruction. Aspiration or inhalation of alginates could cause chemical pneumonitis.
<b>Protection of first-aiders</b>	Use personal protective equipment.

#### 5. FIRE-FIGHTING MEASURES

<b>Suitable extinguishing media</b>	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
<b>Specific hazards arising from the chemical</b>	Dry or powdered ingredients are combustible. Dispersal of finely divided dust from products into air may form mixtures that are ignitable and explosive. Minimize airborne dust generation and eliminate sources of ignition.
<b>Protective equipment and precautions for firefighters</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
<b>NFPA</b>	
<b>Health Hazard</b>	0
<b>Flammability</b>	1
<b>Stability</b>	0
<b>Special Hazards</b>	-

#### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions</b>	Powder becomes slippery when wet. For personal protection see section 8.
<b>Methods for containment</b>	Maintain good housekeeping practices to avoid accumulation of settled dust, especially on overhead surfaces.
<b>Methods for cleaning up</b>	Sweep up and shovel into suitable containers for disposal.

#### 7. HANDLING AND STORAGE

<b>Handling</b>	Avoid dust formation in confined areas. Wear personal protective equipment. In case of insufficient ventilation, wear suitable respiratory equipment if release of airborne dust is expected. Refer to Section 8. Material becomes slippery when wet. Use caution if wet.
<b>Storage</b>	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure guidelines** This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

### Occupational exposure controls

**Engineering measures** Use with local exhaust ventilation.

### Personal Protective Equipment

#### **General Information**

If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers. These recommendations apply to the product as supplied.

#### **Respiratory protection**

Local nuisance dust standards apply. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. The use of breathing apparatus must comply strictly with the manufacturer's instructions and the regulations governing their choices and uses.

#### **Eye/face protection**

Safety glasses

#### **Skin and body protection**

No special precautions required.

#### **Hand protection**

No special precautions required. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion and the contact time. If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the EC approved gloves

### **Hygiene measures**

When using, do not eat, drink or smoke. Wear suitable gloves and eye/face protection. Wash hands before breaks and immediately after handling the product. Wash hands with water as a precaution. Regular cleaning of equipment, work area and clothing is recommended. Avoid breathing vapors, mist or gas.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	No information available
<b>Color</b>	White to yellowish brown
<b>Physical state</b>	dry powder
<b>Odor</b>	No information available.
<b>Odor Threshold</b>	No information available.
<b>pH</b>	~4 (1% solution)
<b>Melting Point/Range</b>	not determined
<b>Freezing point</b>	No information available
<b>Boiling Point/Range</b>	Not applicable
<b>Flash Point</b>	Not applicable
<b>Evaporation rate</b>	Not applicable
<b>Autoignition Temperature</b>	Not applicable
<b>Vapor pressure</b>	Not applicable
<b>Vapor density</b>	No information available
<b>Density</b>	No information available
<b>Specific Gravity</b>	No information available
<b>Bulk density</b>	No information available.
<b>Water solubility</b>	Soluble in water
<b>Percent volatile</b>	No information available
<b>Partition coefficient</b>	Not applicable
<b>Viscosity</b>	No information available
<b>Oxidizing properties</b>	Not applicable

## 10. STABILITY AND REACTIVITY

<b>Stability</b>	Stable.
<b>Conditions to avoid</b>	Heat, Humid air
<b>Materials to avoid</b>	Strong oxidizing agents
<b>Hazardous decomposition products</b>	None known .
<b>Hazardous polymerization</b>	Hazardous polymerization does not occur.
<b>Hazardous reactions</b>	None under normal processing.

## 11. TOXICOLOGICAL INFORMATION

<b>Skin contact</b>	Non-irritating (Rabbit).
<b>Eye contact</b>	Non-irritating (Rabbit).
<b>Inhalation</b>	May cause irritation of respiratory tract. Inhalation may cause chemical pneumonitis.
<b>Ingestion</b>	Low order of toxicity based on components. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration may cause chemical pneumonitis.
<b>LD50 Oral</b>	> 5000 mg/kg
<b><u>Chronic Toxicity</u></b>	
<b>Carcinogenicity</b>	Contains no ingredient listed as a carcinogen.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

There are no data available for this product. Not expected to have significant environmental effects.

<b>Persistence and degradability</b>	Product is biodegradable
<b>Bioaccumulation</b>	Bioaccumulation is unlikely.
<b>Mobility</b>	No information available.
<b>Other adverse effects</b>	None known

## 13. DISPOSAL CONSIDERATIONS

<b>Waste disposal methods</b>	This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.
<b>Contaminated packaging</b>	Dispose of in accordance with local regulations.

## 14. TRANSPORT INFORMATION

<b><u>DOT</u></b>	not regulated
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**TDG** not regulated

**ICAO/IATA** not regulated

**IMDG/IMO** not regulated

**15. REGULATORY INFORMATION**

**International Inventories**

Chemical Name	TSCA Inventory (United States of America)	DSL (Canada)	EINECS/E LINC S (Europe)	ENCS (Japan)	IECSC (China)	KECL (Korea)	PICCS (Philippines )	AICS (Australia)	NZIoC (New Zealand)
Propylene glycol alginate 9005-37-2	X	X	-	X	X	X	X	X	X

**U.S. Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazard Categories**

**Acute Health Hazard** no  
**Chronic Health Hazard** no  
**Fire Hazard** no  
**Sudden Release of Pressure Hazard** no  
**Reactive Hazard** no

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

**International Regulations**

**Mexico - Grade** Slight risk, Grade 1

**Canada**

**This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.**

**WHMIS Hazard Class**

Non-controlled

**16. OTHER INFORMATION**

HMIS	Health Hazard 0	Flammability 1	Stability 0	Special precautions -
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**NFPA/HMIS Ratings Legend**                      Severe = 4; Serious = 3; Moderate = 2; Slight = 1; Minimal = 0

**Revision Date:**    2014-02-21

**Reason for revision:**                                      (M)SDS sections updated.

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**Prepared By**

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**End of Material Safety Data Sheet**