



Product Information (203) 740-3471 / Emergency Assistance CHEMTREC 1-800-424-9300

MATERIAL SAFETY DATA SHEETS

SECTION I PRODUCT AND COMPANY IDENTIFICATION

Product: Carboxymethyl cellulose sodium
This MSDS is valid for all grades and catalog #'s

Synonyms: Carboxymethylcellulose, sodium salt; Cellulose glycolic acid, sodium salt; Cellulose sodium glycolate; CM-Cellulose sodium salt; Sodium carboxymethylcellulose; Sodium carboxymethyl cellulose; Sodium CMC; Sodium CM-cellulose; Sodium cellulose glycolate; Sodium glycolate cellulose; Sodium salt of carboxymethylcellulose

Formula: POLYMER

Manufacturer: PHARMCO-AAPER
58 Vale Road
Brookfield, Connecticut 06804, USA
Phone (203) 740-3471
Fax (203) 740-3481

1101 Isaac Shelby Drive
Shelbyville, KY 40065
Phone (502) 633-0650
Fax (502) 633-0685

Emergency Contact:
CHEMTREC 1-800-424-9300

SECTION II COMPOSITION / INFORMATION ON INGREDIENTS

% by weight	Material	CAS #	TLV/PEL	LC50/LD50
100	Carboxymethyl cellulose sodium	9004-32-4	Not available	ORAL (LD50): Acute: 2700 mg/kg [Rat]. >27000 mg/kg [Rabbit]. DERMAL (LD50): Acute: >2000 mg/kg [Rabbit]. DUST (LC50): Acute: >5800 mg/m ³ 4 hours [Rat].

SECTION III HAZARDS IDENTIFICATION

Potential Acute Health Effects: Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.

Potential Chronic Health Effects:

CARCINOGENIC EFFECTS: Not available.

MUTAGENIC EFFECTS: Not available.

TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITY: Not available.

Repeated or prolonged exposure is not known to aggravate medical condition.

SECTION IV FIRST AID

Obtain medical attention for all cases of over-exposure.

Eye Contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention if irritation occurs.

Skin Contact: Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops. Cold water may be used.

Hazardous Skin Contact: Not available.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms appear.

Hazardous Inhalation: Not available.

Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

Hazardous Ingestion: Not available.

SECTION V FIRE FIGHTING MEASURES

Fire:

Flammability of the Product: May be combustible at high temperature.

Auto-Ignition temperature: 370°C (698°F)

Flash point: Not available.

Flammable limits: Not available.

Products of Combustion: Not available.

Fire Hazards: Slightly flammable to flammable in presence of heat.

Explosion Hazards: Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

Fire Extinguishing Media: SMALL FIRE: Use DRY

chemical powder. **LARGE FIRE:** Use water spray, fog or foam. Do not use water jet.

Special Information: Material in powder form, capable of creating a dust explosion. Material in powder form, capable of creating a dust explosion. Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

SECTION VI

SPILL/ACCIDENTAL RELEASE MEASURES

Small Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill: Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

SECTION VII

HANDLING AND STORAGE

Precautions: Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe dust. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents.

Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area.

SECTION VIII

EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection: Safety glasses. Lab coat. Dust respirator. Use a dust respirator if ventilation is inadequate and/or if handling of material creates visible dust clouds. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill: Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits: Not available.

SECTION IX

PHYSICAL AND CHEMICAL PROPERTIES

Physical State/Appearance: Solid. (Powdered solid.)

Molecular Weight: Not available

Odor: Odorless

Taste: Not available

Color: White

pH (1% Solution in Water): Not available

Boiling Point: Not available

Melting Point: Not available

Critical Temperature: Not available

Specific Gravity: 1.59 (Water = 1)

Vapor Pressure (mm Hg): Not applicable.

Vapor Density (Air=1): Not available.

Volatility: Not available.

Odor Threshold: Not available.

Evaporation Rate: Not available.

Viscosity: Not available.

Water/Oil Dist. Coefficient: Not available.

Ionicity (in water): Not available.

Dispersion Properties: See solubility in water.

Solubility: Soluble in cold water.

SECTION X

STABILITY/REACTIVITY INFORMATION

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Excess heat, moist air or water, dust generation

Incompatibilities: Reactive with oxidizing agents.

Corrosivity: Non-corrosive in presence of glass.

Special Information: Not available.

SECTION XI

TOXICOLOGICAL INFORMATION

Routes of Entry: Inhalation. Ingestion.

Toxicity to Animals: Acute oral toxicity (LD50): 27000 mg/kg [Rat]. Acute dermal toxicity (LD50): >2000 mg/kg [Rabbit].

Acute toxicity of the dust (LC50): >5800 mg/m³ 4 hours [Rat].

Chronic Effects on Humans: Not available.

Other Toxic Effects on Humans: Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.

Special Information on Toxicity to Animals: Lethal

Dose/Conc 50% Kill: LD50[Guinea Pig] - Route: Oral; Dose: 16000 mg/kg

Special Information on Chronic Effects/Toxicity on

Humans: May cause adverse reproductive effects based on animal test data. May cause cancer based on animal test data.

Acute Potential Health Effects: Skin: May cause skin irritation.

Eyes: Dust may cause eye irritation. Inhalation: Low hazard.

Dust may cause respiratory tract irritation. Ingestion: Low

hazard. May cause gastrointestinal tract irritation with nausea, vomiting, diarrhea. Chronic Potential Health Effects: Ingestion:

Prolonged or repeated ingestion may affect the liver, urinary system, and metabolism (sodium levels).

SECTION XII

ECOLOGICAL INFORMATION

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The product itself and its products of degradation are not toxic.

Special Information on Products of Biodegradation: Not available.

SECTION XIII

DISPOSAL CONSIDERATIONS

Waste Disposal: Recycle to process, if possible. Consult your local or regional authorities.

SECTION XIV

TRANSPORTATION INFORMATION

DOT Classification: DOT Not a DOT controlled material (United States).

UN: Not applicable.

Special Provisions for Transport: Not applicable.

SECTION XV REGULATORY INFORMATION

Federal and State Regulations: Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires emergency planning based on Threshold Planning Quantities (TPQs) and release reporting based on Reportable Quantities (RQs) in 40 CFR 355 (used for SARA 302, 304, 311 and 312).

Components present in this product at a level which could require reporting under the statute are: **NONE**

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires submission of annual report release of toxic chemicals that appear in 40 CFR 372 (used for SARA 313). This information must be included in all MSDSs that are copied and distributed for this material.

Components present in this product at a level which could require reporting under the statute are: **NONE**

Pennsylvania Right-To-Know, Hazardous substance List, Hazardous Substances and Special hazardous Substances on the list must be identified when present in products. Components present in this product at a level which could require reporting under the statute are: **NONE**

Massachusetts Right-To-Know, Substance List (MSL) Hazardous Substances and Extraordinarily Hazardous Substances on the MSL must be identified when present in products. Components present in this product at a level which could require reporting under the statute are: **NONE**

Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) requires notification of the National Response Center of release of quantities of Hazardous Substances equal or greater than the reportable quantities (RQs) in 40 CFR 302.4. Components present in this product at a level which could require reporting under the statute are: **NONE**

Other Classifications:

WHMIS (Canada): 74

DSCL (EEC): 75

Protective Equipment: 76

References: 77

Other Special Considerations: 78

The information contained herein is based on data considered to be accurate based on the material as packaged. However, no warranty is expressed regarding the accuracy of these data or the results to be obtained from the use thereof. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It is the user's obligation to determine the conditions of safe use of the product. While this MSDS is based on technical data judged to be reliable, PHARMCO-AAPER assumes not responsibility for the completeness or accuracy of the information contained herein.

Valerie Moffett

From: Kathy Orne
Sent: Friday, August 01, 2008 4:05 PM
To: Valerie Moffett
Subject: FW: Navision

Val, could you please read the e-mail I wrote to Alli, and do the yellows for them. Whenever you have some time, its been like that for awhile so its not an emergency.

Thanks,
Kathy

-----Original Message-----

From: Allison LaBarbera
Sent: Friday, August 01, 2008 1:42 PM
To: Kathy Orne
Subject: RE: Navision

Hey Kathy - you would attach it to a yellow form and give it to Lynn to update in the system.

Thanks,

Allison

From: Kathy Orne
Sent: Friday, August 01, 2008 9:21 AM
To: Allison LaBarbera
Subject: Navision

Alli,

I'm not sure if this is something you'd handle, but acct.#211363 and 211366, have us-tf-0398 for a permit # in the system but its actually 398 (no 0) I noticed it when I was scanning some permits yesterday. Who would take care of that if its not you?

Kathy Orne'
Receptionist
Pharmco-AAPER
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