Safety Data Sheet

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

Section 1: Identification

Product Name Microcrystalline Cellulose/CMC Na NF
Commercial Name Avicel RC-591
Product Use Not available
Restrictions On Use Not available

Product Code 30-2460

Company
PCCA
9901 South Wilcrest
Houston, TX 77099
Phone: 1-800-331-2498
Fax: 1-800-874-5760

In case of emergency contact:
CHEMTREC (24hr) 1-800-424-9300

Section 2: Hazard(s) Identification

OSHA Haz Com: CFR 1910.1200 This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

Signal Word NON-HAZARDOUS

Hazard Statement(s) Not available.

Pictogram(s) or Symbol(s)

Precautionary Statement(s):

Prevention Not available.
Response Not available
Storage Not available
Disposal Not available

Section 3: Composition/Information on Ingredients

Substance/Mixture Mixture
Components Microcrystalline Cellulose, Sodium Carboxymethylcellulose
% By Weight Microcrystalline Cellulose:N/A, Sodium Carboxymethylcellulose:N/A
CAS# 9004-34-6, 9004-32-4
Molecular Weight Not available.
Chemical Formula Not available.
Synonym(s) MCC; Cellulose Gel; Sodium Carboxymethylcellulose: NaCMC, CMC, SCMC, Carboxymethylcellulose, Carboxymethyl Ether, Sodium CMC, Sodium Salt, Cellulose Gum

Mixtures

Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
Microcrystalline Cellulose	9004-34-6	N/A	N/A	N/A
Sodium Carboxymethylcellulose	9004-32-4	N/A	N/A	N/A

Section 4: First-Aid Measures

Inhalation Remove person to fresh air. If breathing is difficult or if discomfort occurs and persists, obtain medical attention.

Skin Contact Wash with water and soap as a precaution

Eye Contact Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if eye irritation develops or persists.

Ingestion Never give anything by mouth to an unconscious person. Drink plenty of water. Get medical attention if symptoms occur

Symptoms/Effects

Acute Difficulty breathing. Cough

Delayed Difficulty breathing. Cough

Immediate Medical Attention

Aspiration or inhalation of this product could cause chemical pneumonitis. Treatment is symptomatic and supportive.

Section 5: Fire-Fighting Measures

Suitable Extinguishing Media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable Extinguishing Media

None known.

Products of Combustion

Avoid dust formation. Fine dust dispersed in air, in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard

Firefighters Special Equipment and Precautions

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment.

Section 6: Accidental Release Measures

Avoid dispersal of dust in the air (i.e., cleaning dust surfaces with compressed air.). Avoid breathing dust. Powder may become slippery when wet. Methods for Containment: Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Methods for cleaning up: Sweep, vacuum or shovel into suitable containers for disposal. Nonsparking tools should be used. Washdown water is not recommended. Powder may become slippery when wet

Section 7: Handling and Storage

Handling: Handle in accordance with good industrial hygiene and safety practice. Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powdered material can build static electricity when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmosphere. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment if release of airborne dust is expected. Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Storage: Store at less than 25 °C, in tightly closed containers. Keep out of direct sunlight. Store in dry environment away from heat and sources of ignition, i.e., steam pipes, radiant heaters, hot air vents or welding sparks. Do not store with strong smelling materials.

Section 8: Exposure Controls/Personal Protection

Exposure Limits Not available

Engineering Controls It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in the handling of this product contain explosion relief vents or an explosion suppression or an oxygen-deficient environment. Use only appropriately classified electrical equipment and powered industrial trucks.

Personal Protection	Eye/Face Protection: Safety glasses. Hand Protection: Protective gloves. Skin and Body Protection: Minimize skin contamination by following good industrial hygiene practices. Respiratory Protection: Local nuisance dust standards apply. In case of insufficient ventilation wear suitable respiratory equipment. General information: Protective engineering solutions should be implemented and in use. These recommendations apply to the product as supplied. If the product is used in mixtures, contact an appropriate protective equipment supplier or industrial hygienist for more information.

Section 9: Physical and Chemical Properties

Appearance	Off-white Free flowing powder Dry powder
Odor	Odorless.
Odor Threshold	Not available

Melting Point	Not available.	**pH**	6.0 - 8.0
Freezing Point	Not available	**Vapor Pressure**	Not available.
Boiling Point/Range	Not available.	**Vapor Density**	Not available.
Decomposition temperature	Not available	**Viscosity**	Not available.
Partition Coefficient: n-octanol/water	Not available	**Evaporation Rate**	Not applicable
Flash Point	Not available.	**Autoignition temperature**	Not applicable
Flammability	Not applicable	**Flammability or Explosive Limits:**	
		Lower	Not available
		Upper	Not available

Solubility(ies)	Not available
Other	Kst >0 bar m/s

Section 10: Stability and Reactivity

Reactivity	Not available
Chemical Stability	Stable under recommended storage conditions
Hazardous Polymerization	Hazardous polymerization will not occur.
Conditions to Avoid	Dust formation. Excessive heat. Humid air. Sparks
Incompatible Materials	Oxidizing agents. Strong acids.
Hazardous Decomposition Products	Carbon monoxide (CO) and Carbon dioxide (CO2)

Section 11: Toxicological Information

RTECS Not available.

Acute Toxicity
Not available.

Skin Corrosion/Irritation
Not available

Serious Eye Damage/Irritation
Not available

Respiratory or Skin Sensitization
Not available

Germ Cell Mutagenicity
Not available

Carcinogenicity
Not available

Reproductive Toxicity
This product does not contain any known or suspected reproductive hazards

Routes of Entry
Not available.

Symptoms Related to Exposure
None noted in chronic animal studies.

Potential Health Effects
Aspiration may cause chemical pneumonitis. Excessive inhalation of dust can mechanically impede respiration

Target Organ(s) None noted in chronic animal studies.

Section 12: Ecological Information

Ecotoxicity
Not available

Persistance and Degradability
Expected to biodegrade, based on component information.

Bioaccumulative Potential
Bioaccumulation is unlikely

Mobility in Soil
Not available

Other Adverse Effects
None known

Section 13: Disposal Considerations

Waste Disposal
Dispose of in accordance with local regulations

Disposal of Container
Dispose of in accordance with local regulations

Other Considerations
Not available.

Section 14: Transport Information

DOT Classification
Not a DOT controlled material (United States). This material is not classified dangerous good according to international transportation regulations (ADR/RID-IMDG-ICAO/IATA).

Section 15: Regulatory Information

Regulations
Not available.

Other
Not available.

Section 16: Other Information

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 I = Slight 0 = Insignificant REVISION SUMMARY: This MSDS replaces Revision #8, dated November 7, 2005. Changes in information are as follows: Section 1 (Product and Company Identification) Section 15 (Regulatory Information) Section 16 (Other Information)