

MATERIAL SAFETY DATA SHEET

S & G Resources, Inc.
266 Main Street
Olde Medfield Square
Medfield, MA 02052
Telephone: (508) 359-7771

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I. PRODUCT IDENTIFICATION

Trade Name: Cellulose Gums

Chemical and common name: Sodium carboxymethyl cellulose
Sodium CMC: Cellulose, Carboxymethyl ether,
Sodium salt

CAS Number: [9004-32-4]

Appearance and odor: White, granular solid to fine powder; odorless

II. HAZARDOUS INGREDIENTS AND EXPOSURE LIMITS

Not established. This material is not expected to cause physiologic impairment at low concentration. Until a specific TLV** is adopted by the ACGIH (American Conference of Governmental Industrial Hygienists), or an OSHA (Occupational Safety & Health Administration) standard is issued, it is suggested that this material be treated as a nuisance dust or particulate in accordance with the recommendation of ACGIH.

III. TYPICAL PHYSICAL AND CHEMICAL CHARACTERISTICS

SURFACES SUBJECT TO SPILLS OR DUSTING WITH THIS PRODUCT CAN BECOME SLIPPERY WHEN WET.

Boiling point:	N/A	Solubility in water:	Complete
Vapor pressure		Specific gravity:	1.59
@ 20 degrees C:	N/A	pH of 2% solution:	7.5 typical
Vapor density:	N/A	Evaporation rate:	N/A
Moisture content:	8 max. (as packed)		
Freezing point:	N/A		

N/A = Not Applicable

IV. FIRE, EXPLOSION AND REACTIVITY HAZARD DATA

CAUTION! MAY FORM FLAMMABLE DUST-AIR MIXTURES.

Browning temperature: 227 degrees C (440 degrees F)

Flammable limits: N/A

Autoignition temperature: 370 degrees C (698 degrees F) Extinguishing media: Water spray, dry chemical, foam, carbon dioxide, or halon

Special fire-fighting procedures: none

Unusual fire and explosion hazards: May form flammable dust-air mixtures

Stability considerations: Stable

Incompatibility with: None

Hazardous decomposition products: None

Hazardous products of combustion: Carbon monoxide, carbon dioxide and smoke

Hazardous polymerization: Will not occur

V. HEALTH HAZARD DATA

MAY CAUSE FLAMMABLE DUST-AIR MIXTURES. DUST CAUSES MILD EYE IRRITATION. MAY CAUSE RESPIRATORY IRRITATION IF INHALED. SURFACES SUBJECT TO SPILLS OR DUSTING CAN BECOME SLIPPERY WHEN WET.

<u>HMIS*</u>	<u>Rating</u>
Health hazard:	1 Slight
Flammability hazard:	1 Slight
Reactivity hazard:	0 Minimal
Personal protection equipment:	E

SIGNS AND SYMPTOMS OF OVER EXPOSURE IN THE WORK PLACE:

Eyes: Contact with dust causes mild eye irritation.

Skin: None

Inhalation: Inhaling dust may cause respiratory irritation.

Ingestion: None

* HMIS = Hazard Materials Identification System rating for the product as it is supplied

** TLV = Registered trademark of American Conference of Governmental Industrial Hygienists for Threshold Limit Values.

EMERGENCY AND FIRST AID PROCEDURE:

EYES: In case of contact, immediately flush with plenty of low pressure water for at least 15 minutes. Remove any contact lenses to assure thoroughly flushing. Call a physician.

INHALATION: Remove to fresh air. Treat any irritation symptomatically. Call a physician.

MEDICAL CONDITIONS GENERALLY RECOGNIZED AS BEING AGGRAVATED BY EXPOSURE: None

Primary route of Entry: Following standard industrial hygiene and recommended procedures, entry of the compound into the body is not expected.

Not listed as a carcinogen by NTP (National Toxicology Program); not regulated as a carcinogen by OSHA (Occupational Safety & Health Administration); not evaluated by IARC (International Agency for Research on Cancer).

Reported Human Effects: Laxative effect reported after repeated oral ingestion of large amounts (10 grams). A single case of allergic contact dermatitis reported after repeated long-term (8 years) skin contact.

Reported Animal Effects: Eye irritation after exposure to dust. Laxative effect (loose stools) from repeated ingestion of 10% or greater in diet; lesser amounts are not reported to cause this effect. Laboratory studies indicate that SODIUM CARBOXYMETHYL CELLULOSE is not a mutagen, not a teratogen, not a carcinogen and does not cause effects on reproduction.

VI. SPILL AND LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Sweep up spilled material use or disposal. Surfaces subject to spills or dusting with this product can become slippery when wet.

WASTE DISPOSAL METHOD: Incineration of waste material in a permitted facility in accordance with local, state and federal regulations is the recommended disposal method. Land filling in a licensed facility equipped with leachate collection is a suitable alternative.

This product is biodegradable. Waste water containing this product can be considered for treatment in an acclimated biological treatment system of adequate capacity.

This product is not listed in federal hazardous waste regulations 40 CFR 261.33 paragraphs (e) or (f); i.e., chemical products that are considered hazardous if they become wastes. It does not exhibit any of the hazardous characteristics listed in 40 CFR 261 Subpart C. State or local hazardous waste regulations may apply if different from the federal.

VII. APPLICABLE CONTROL MEASURES

Appropriate hygienic practices: Do not allow eye contact.
 Avoid breathing dust.
 Wash thoroughly after handling.

Personal protective equipment: Dust Mask, Safety glasses, Rubber Gloves, Goggles, and Apron.

Work practices: Eyewash fountains and safety showers should be easily accessible.

SURFACES SUBJECT TO SPILLS OR DUSTING WITH THIS PRODUCT CAN BECOME SLIPPERY WHEN WET. Keep floors clean and dry.

Handling and storage precautions: Keep away from sparks and open flame.
 Avoid accumulating dust. Avoid suspending dust in air.
 To protect product quality, store in sealed containers in a dry place away from heat and sunlight.

Engineering controls: Adequate ventilation should be provided to keep dust concentrations below acceptable exposure limits.

Protective measures during repair and maintenance: Eliminate ignition sources.
 Keep area clean.
 Product will burn.

VIII. ENVIRONMENTAL & REGULATORY DATA

The following environmental and regulatory data are provided to assist users of this product in defining their regulatory environmental compliance obligations.

A. SARA TITLE III

COMPONENT NO.	SEC. 304 EHS RQ (lbs)	SEC. 302 EHS TPQ(LBS)	SEC. 311/312 HAZARD CATEGORY	SEC. 313 TOXIC CHEMICAL (YES/NO)
P	N/A	N/A	HC-1, HC-3	N/A

B. CERCLA (40 CFR 302.4 HAZARDOUS SUBSTANCE & REPORTABLE QUANTITIES)

This product does NOT contain any hazardous substances listed in 40 CFR 302.4.

C. RCRA INFORMATION

This product is not listed in federal hazardous waste regulation 40 CFR 261.33, paragraph (e) of (f) - i.e., chemical products that are considered hazardous if they become wastes. It does not exhibit any of the hazardous characteristics listed in 40 CFR 261, Subpart C. State or local hazardous waste regulations may apply if they are different from the federal regulations.

D. This product contains no product governed under Proposition 65 of California.

This product complies with the limitation of metal concentrations under CONEG.

This product contains no components that contribute to atmospheric Ozone Depletion.