SAFETY DATA SHEET

Preparation Date: 1/22/2015
Revision Date: 6/13/2018
Revision Number: G3

1. IDENTIFICATION

Product identifier

Product code: CA192
Product Name: CARBOXYMETHYLCELLULOSE SODIUM, MEDIUM VISCOSITY, VISCOSITY OF 2 PERCENT AQUEOUS SOLUTION @ 25 DEG C: 400-800 CPS, USP

Other means of identification

Synonyms:
Carmellose Sodium
Cellulose, Carboxymethyl Ether, Sodium Salt
Sodium Carboxymethylcellulose
Carboxymethylcellulose, sodium salt
Cellulose sodium glycolate
Cellulose glycolic acid, sodium salt
Sodium CMC;
Sodium CM-cellulose;
Sodium cellulose glycolate;
Sodium glycolate cellulose;
Sodium salt of carboxymethylcellulose
Aquaplast; Carmethose; Cellofas; Cellpro; CMC sodium salt; Collowel; Ethoxose;
Lovosa; NaCm-cellulose salt; Tylose C

CAS #: 9004-32-4
RTECS # FJ5950000
Cl#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: No information available.
Uses advised against: No information available

Supplier:
Spectrum Chemical Mfg. Corp
14422 South San Pedro St.
Gardena, CA 90248
(310) 516-8000

Order Online At: https://www.spectrumchemical.com
Emergency telephone number: Chemspect 1-800-424-9300
Contact Person: Martin LaBenz (West Coast)
Contact Person: Ibad Tirmiz (East Coast)

2. HAZARDS IDENTIFICATION

Classification

Product code: CA192
Product name: CARBOXYMETHYLCELLULOSE SODIUM, MEDIUM VISCOSITY, VISCOSITY OF 2 PERCENT AQUEOUS SOLUTION @ 25 DEG C: 400-800 CPS, USP
This chemical is considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

| Combustible dust | - |

**Label elements**

**Warning**

May form combustible dust concentrations in air

**Hazards not otherwise classified (HNOC)**
Not Applicable

**Other hazards**
Not available

**Precautionary Statements - Prevention**
Keep away from all ignition sources including heat, sparks, and flame
Keep container closed and grounded
Prevent dust accumulations to minimize explosion hazard

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Weight %</th>
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</thead>
<tbody>
<tr>
<td>Carboxymethylcellulose Sodium</td>
<td>9004-32-4</td>
<td>100</td>
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### 4. FIRST AID MEASURES

**First aid measures**

**General Advice:** National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222.

**Skin Contact:** Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention if irritation develops.

**Eye Contact:** Flush eyes with water for 15 minutes. Get medical attention if irritation occurs. If symptoms persist, call a physician.

**Inhalation:** Move to fresh air. If breathing is difficult, give oxygen. In case of shortness of breath, give oxygen. Get medical attention.

**Ingestion:** Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician if necessary.

**Most important symptoms and effects, both acute and delayed**

**Symptoms** May cause eye/skin irritation

**Product code:** CA192

**Product name:** CARBOXYMETHYLCELLULOSE SODIUM, MEDIUM VISCOSITY, VISCOSITY OF 2 PERCENT AQUEOUS SOLUTION @ 25 DEG C: 400-800 CPS, USP
Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea

**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician:** Treat symptomatically.

**Protection of first-aiders**

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

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### 5. FIRE-FIGHTING MEASURES

**Extinguishing Media**

**Suitable Extinguishing Media:** Carbon dioxide (CO2). Dry chemical. Water spray mist or foam.

**Unsuitable Extinguishing Media:** No information available.

**Specific hazards arising from the chemical**

**Hazardous Combustion Products:** Carbon Monoxide, Carbon Dioxide.

**Specific hazards:** May be combustible at high temperatures. Avoid generating dust. Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

**Special Protective Actions for Firefighters**

**Specific Methods:** No information available.

**Special Protective Equipment for Firefighters:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

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### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal Precautions:** Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Remove all sources of ignition. Avoid dust formation. Avoid dispersal of dust in the air. 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. Non-sparking tools should be used.

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system.

**Methods and material for containment and cleaning up**

**Methods for containment** Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.

**Methods for cleaning up** Sweep up and shovel into suitable containers for disposal. Avoid creating dust. Use only non-sparking tools. Clean contaminated surface thoroughly.

**Product code:** CA192

**Product name:** CARBOXYMETHYLCELLULOSE SODIUM, MEDIUM VISCOSITY, VISCOSITY OF 2 PERCENT AQUEOUS SOLUTION @ 25 DEG C: 400-800 CPS, USP
7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:
Provide sufficient air exchange and/or exhaust in work rooms. Minimize dust generation and accumulation. Avoid dust formation. Dry powders can build static electricity charges when subjected to friction of transfer and mixing operations. All equipment used when handling the product must be grounded. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Keep away from incompatible materials.

Safe Handling Advice
Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Do not ingest. Do not breathe vapors/dust. Keep away from heat and sources of ignition. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:
Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

Incompatible Materials:
Oxidizing agents
Acids
Bases

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

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<tr>
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<th>NIOSH</th>
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Canada

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<td>9004-32-4</td>
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</table>

Appropriate engineering controls

Engineering measures to reduce exposure:
Ensure adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to

Product code: CA192

Product name:
CARBOXYMETHYLCELLULOSE SODIUM, MEDIUM VISCOSITY, VISCOSITY OF 2 PERCENT AQUEOUS SOLUTION @ 25 DEG C: 400-800 CPS, USP
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. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e. there is no leakage from the equipment) 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 system or an oxygen-deficient environment

**Individual protection measures, such as personal protective equipment**

**Personal Protective Equipment**

**Eye protection:**
- Goggles
- Safety glasses with side-shields

**Skin and body protection:**
- Long sleeved clothing
- Chemical resistant apron
- Gloves

**Respiratory protection:**
- Effective dust mask. Use a dust respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentration of dust (dust clouds), inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified respirator or equivalent.

**Hygiene measures:**
- Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

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<th>Physical state:</th>
<th>Appearance:</th>
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<th>Taste</th>
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<th>Formula:</th>
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<th>Decomposition temperature(°C/°F):</th>
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<tr>
<th>Boiling point/range(°C/°F):</th>
<th>Bulk density:</th>
<th>Density (g/cm³):</th>
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<th>Specific gravity:</th>
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<tbody>
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<tr>
<th>Product code:</th>
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<tbody>
<tr>
<td>CA192</td>
<td>CARBOXYMETHYLCELULOSE SODIUM, MEDIUM VISCOSITY, VISCOSITY OF 2 PERCENT AQUEOUS SOLUTION @ 25 DEG C: 400-800 CPS, USP</td>
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</table>
10. STABILITY AND REACTIVITY

Reactivity
Reactive with oxidizing agents
Reactive with acids
Reacts with strong bases

Chemical stability
Stability: Stable under recommended storage conditions.
Possibility of Hazardous Reactions: Hazardous polymerization does not occur
Conditions to avoid: Heat. Avoid dust formation. Dust may form explosive mixture in air. Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Incompatible materials.
Incompatible Materials: Oxidizing agents
Acids
Bases
Hazardous decomposition products: Carbon monoxide. Carbon dioxide.

Other Information
Corrosivity: No information available
Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure
Principal Routes of Exposure:
Ingestion. Inhalation.

Acute Toxicity

Component Information
Carboxymethylcellulose Sodium
CAS-No. 9004-32-4

Product code: CA192
Product name: CARBOXYMETHYLCELLULOSE SODIUM, MEDIUM VISCOSITY, VISCOSITY OF 2 PERCENT AQUEOUS SOLUTION @ 25 DEG C: 400-800 CPS, USP
LD50/oral/rat = 27000 mg/kg
LD50/oral/mouse = >27000 mg/kg
LD50/dermal/rabbit = >2000 mg/kg
LD50/dermal/rat = 27000 mg/kg
LD50/dermal/mouse = No information available
LC50/inhalation/rat = >5800 mg/m³ Inhalation LC50 Rat 4 h
LC50/inhalation/mouse = No information available
Other LD50 or LC50 information = 16000 mg/kg Oral LD50 Guinea Pig
>27000 mg/kg Oral LD50 Rabbit

Product Information

LD50/oral/rat = VALUE Acute Tox Oral = 27000 mg/kg
LD50/oral/mouse = VALUE Acute Tox Oral = >27000
LD50/dermal/rabbit VALUE Acute Tox Dermal = > 2000 mg/kg
LD50/dermal/rat VALUE Acute Tox Dermal = No information available
LC50/inhalation/rat VALUE Vapor = No information available
 VALUE Gas = No information available
 VALUE Dust/Mist = >5800 mg/m³ (4-hr.)
LC50/inhalation/mouse
 VALUE Vapor = No information available
 VALUE Gas = No information available
 VALUE Dust/Mist = No information available

Symptoms

Skin Contact: May cause skin irritation.
Eye Contact: May cause eye irritation.
Inhalation May cause irritation of respiratory tract.
Ingestion Not expected to be a health hazard. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Aspiration hazard No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity Prolonged or repeated ingestion may affect the liver, urinary system, and metabolism. Repeated exposure may cause bronchitis to develop with cough, phlegm, and /or shortness of breath.
Sensitization: No information available.

Product code: CA192
Product name: CARBOXYMETHYLCELLULOSE SODIUM, MEDIUM VISCOSITY, VISCOSITY OF 2 PERCENT AQUEOUS SOLUTION @ 25 DEG C: 400-800 CPS, USP
Mutagenic Effects: No information available

Carcinogenic effects: Not considered carcinogenic.

<table>
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<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>IARC</th>
<th>ACGIH - Carcinogens</th>
<th>NTP</th>
<th>OSHA HCS - Carcinogens</th>
<th>Australia - Notifiable Carcinogenic Substances</th>
<th>Australia - Prohibited Carcinogenic Substances</th>
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<tbody>
<tr>
<td>Carboxymethylcellulose Sodium</td>
<td>9004-32-4</td>
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<td>Not listed</td>
<td>Not listed</td>
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<td>Not listed</td>
</tr>
</tbody>
</table>

ACGIH (American Conference of Governmental Industrial Hygienists)
IARC (International Agency for Research on Cancer)
NTP (National Toxicology Program)
OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity: No data is available
Reproductive Effects: No information available
Developmental Effects: No information available
Teratogenic Effects: No information available

Specific Target Organ Toxicity
STOT - single exposure: No information available.
STOT - repeated exposure: No information available.
Target Organs: No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity
Ecotoxicity effects: Aquatic environment.

Carboxymethylcellulose Sodium - 9004-32-4
Freshwater Fish Species Data: >20000 mg/l 96 h ONcorhynchus mykiss (Rainbow Trout) (Ecotox - U.S. EPA)
Water Flea Data: 87.26 mg/l 48 h EC50 Ceriodaphnia dubia (Ecotox - U.S. EPA)
Persistence and degradability: No information available
Bioaccumulative potential: No information available.
Mobility: No information available.

13. DISPOSAL CONSIDERATIONS

Disposal Methods
Waste from residues / unused products:
Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:
Empty containers should be taken for local recycling, recovery or waste disposal

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<tbody>
<tr>
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<td>9004-32-4</td>
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</table>

14. TRANSPORT INFORMATION

DOT
UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Subsidiary Class: No information available
Packing group: No information available
Emergency Response Guide Number: No information available
Marine Pollutant: No data available
DOT RQ (lbs): No information available
Special Provisions: No Information available
Symbol(s): No information available
Description: No information available

TDG (Canada)
UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Subsidiary Risk: No information available
Packing Group: No information available
Marine Pollutant: No Information available
Description: No information available

ADR
UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Packing Group: No information available
Subsidiary Risk: No information available

IMO / IMDG
UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Subsidiary Risk: No information available
Packing Group: No information available
Marine Pollutant: No information available

RID
UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available

Product code: CA192
Product name: CARBOXYMETHYLCELLULOSE SODIUM, MEDIUM VISCOSITY, VISCOSITY OF 2 PERCENT AQUEOUS SOLUTION @ 25 DEG C: 400-800 CPS, USP
15. REGULATORY INFORMATION

International Inventories

<table>
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<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>U.S. TSCA</th>
<th>KOREA KECL (PICCS)</th>
<th>Philippines (PICCS)</th>
<th>Japan ENCS (8)-181 (8)-185 (8)-203</th>
<th>CHINA</th>
<th>Australia (AICS)</th>
<th>EINECS-No.</th>
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<tbody>
<tr>
<td>Carboxymethylcellulose Sodium</td>
<td>9004-32-4</td>
<td>Present XU (ACTIVE)</td>
<td>Present KE-05354</td>
<td>Present</td>
<td>Present 33850</td>
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U.S. Regulations

*Carboxymethylcellulose Sodium*

- **FDA - Food Additives Generally Recognized as Safe (GRAS):** 21 CFR 182.1745
- **FDA - Direct Food Additives:** 21 CFR 173.310
- **FDA - 21 CFR - Total Food Additives:** 133.178 133.179 150.141 150.161 173.310 175.105 182.1745


**Chemicals Known to the State of California to Cause Cancer:**
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

**Chemicals Known to the State of California to Cause Reproductive Toxicity:**
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

<table>
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CERCLA/SARA

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<th>CAS-No.</th>
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<th>Section 313 - Chemical Category</th>
<th>Section 313 - Reporting de minimis</th>
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Product name:
CARBOXYMETHYLCELLULOSE SODIUM, MEDIUM VISCOSITY, VISCOSITY OF 2 PERCENT AQUEOUS SOLUTION @ 25 DEG C: 400-800 CPS, USP
### U.S. TSCA

<table>
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<th>Components</th>
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<th>TSCA 8(d) - Health and Safety Reporting</th>
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### Canada

#### WHIMIS 2015 - GHS Classifications

**WHIMIS 2015 Hazard Classification Information:**
Not a dangerous product according to HPR classification criteria.

**Canada Hazardous Products Regulation:**
This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR.

**WHIMIS 1988 Hazard Class**
Non-controlled

**Canada Controlled Products Regulation:**
This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

### Inventory

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### EU Classification

**EU GHS - SV - CLP 1272/2008**

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**EU - CLP (1272/2008)**

**R-phrase(s)**
not determined (not applicable)

**S-phrase(s)**
none

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**Product code:** CA192

**Product name:**
CARBOXYMETHYLCELLULOSE SODIUM, MEDIUM VISCOSITY, VISCOSITY OF 2 PERCENT AQUEOUS SOLUTION @ 25 DEG C: 400-800 CPS, USP
Limits:

| Carboxymethylcellulose Sodium | 9004-32-4 | No information |

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:
Not dangerous

16. OTHER INFORMATION

Preparation Date: 1/22/2015
Revision Date: 6/13/2018
Prepared by: Sonia Owen

Disclaimer: All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet