

# Safety Data Sheet

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03  
Canadian Workplace Hazardous Material Information System (WHMIS) 2015  
Mexico NOM-018-STPS-2000; NOM-018-STPS-2015  
Globally Harmonized System (GHS)

## GENUGEL® carrageenan type LC-5

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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

**Product Name:** GENUGEL® carrageenan type LC-5

**Pure substance/mixture** Mixture

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Recommended Use** Stabilizer. Thickening agent. Food additive.

**Uses advised against** None known.

#### 1.3. Details of the supplier of the safety data sheet

**Company:** CP Kelco U.S., Inc.  
a Huber Company  
3100 Cumberland Boulevard, Suite 600  
Atlanta, GA 30339 USA  
Tel: +1 800 535 2687

**E-mail** customer.request@cpkelco.com

**Internet** www.cpkelco.com

**1.4. Emergency telephone number** CHEMTREC: +1 800 424 9300 or International +1 703 527 3887

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

**Physical Hazards** Not classified

**Health Hazards** Not classified

**Environmental Hazard** Not classified

**OSHA Regulatory Status** This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). Combustible dusts.

**GHS Classification** Not a hazardous substance or mixture according to the Globally Harmonized System (GHS)

#### 2.2. Label elements

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**Symbols/Pictograms** None

**Signal Word** Warning

**Hazard Statements** May form combustible dust concentrations in air

**Precautionary Statements**

**Prevention** Employ good industrial hygiene practice  
Do not handle until all safety precautions have been read and understood  
Do not breathe dust  
Wear protective gloves/protective clothing/eye protection/face protection  
Combustible dust may form combustible (explosive) dust-air mixtures  
Take precautionary measures against static discharges

**Response** IF exposed or concerned: Get medical advice/attention  
Wash with plenty of soap and water

**Storage** Store away from incompatible materials  
Keep in a dry place

**Disposal** Dispose of contents/containers in accordance with local regulations

**Hazards not otherwise classified (HNOC)** COMBUSTIBLE DUST MAY FORM COMBUSTIBLE (EXPLOSIVE) DUSTAIR MIXTURES. Slippery, can cause falls if walked on.

<b>SECTION 3: Composition/information on ingredients</b>
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Pure substance/mixture Mixture

Chemical Name	CAS Number	TSCA: United States	Canada (DSL)	Mexico	REACH registration number	OSHA Regulatory Status	WHMIS	% by Wt
Carrageenan	9000-07-1	A	Y	Y	Exempt	-	--	--
Sucrose	57-50-1	A	Y	Y	Exempt	Regulated Combustible dusts	--	--

**Legend**

X / Y: Complies ; A: Active ; - / N: Exempt / Not Listed

<b>SECTION 4: First aid measures</b>
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**4.1. Description of first aid measures**

**General Advice** Employ good industrial hygiene practice. Wear suitable protective clothing, gloves and eye/face protection. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. When in doubt or if symptoms are observed, get medical advice.

**Eye Contact** In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

**Skin Contact** Wash with plenty of soap and water.

**Ingestion** Rinse mouth thoroughly with water.

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<b>Inhalation</b>	Do not breathe dust. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
<b>Aspiration hazard</b>	Not an expected route of exposure.
<b>4.2. Most important symptoms and effects, both acute and delayed</b>	Dust contact with the eyes can lead to mechanical irritation. Contact with dust can cause mechanical irritation or drying of the skin.
<b>4.3. Indication of any immediate medical attention and special treatment needed</b>	Treatment should be symptomatic and supportive. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

<b>SECTION 5: Firefighting measures</b>
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<b>General Advice</b>	Treat as "Class A" fire. Product will burn when in contact with a flame. Self extinguishes when ignition source is removed. Tends to smoulder.
<b>5.1. Extinguishing media</b>	
<b>Suitable Extinguishing Media</b>	Water spray (fog). Foam. Dry chemical. Carbon dioxide (CO2).
<b>Unsuitable Extinguishing Media</b>	None known.
<b>5.2. Special hazards arising from the substance or mixture</b>	Avoid dust formation. Do not breathe dust.
<b>Dust Explosion Hazard</b>	Can contain sufficient fines to cause a combustible dust explosion. Do not breathe smoke, gases or vapors generated
<b>Hazardous Combustion Products</b>	Carbon dioxide Carbon monoxide
<b>5.3. Advice for firefighters</b>	
<b>Special protective equipment for firefighters</b>	Wear a self-contained breathing apparatus and chemical protective clothing.
<b>Fire-fighting measures</b>	Water mist may be used to cool closed containers. Combustible dust may form combustible (explosive) dust-air mixtures.

<b>SECTION 6: Accidental release measures</b>
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<b>6.1. Personal precautions, protective equipment and emergency procedures</b>	Keep unauthorized personnel away. Ensure adequate ventilation. Avoid dust formation. Use only non-sparking tools. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Use personal protection recommended in Section 8.
<b>For non-emergency personnel</b>	Keep unauthorized personnel away.
<b>For emergency responders</b>	Keep unauthorized personnel away. Use personal protection recommended in Section 8.

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- 6.2. Environmental precautions** Avoid runoff to waterways and sewers.
- 6.3. Methods and material for containment and cleaning up** Large Spill: Do not dry sweep dust. Wet dust with water before sweeping or use a vacuum to collect dust. Small Spill: Vacuum or sweep material and place in a disposal container. The use of water wash down is not recommended unless the spilled material is already wet.
- 6.4. Reference to other sections** Section 8: Exposure controls and personal protection. See Section 13 for additional waste treatment information.

### SECTION 7: Handling and storage

- 7.1. Precautions for safe handling**
- Avoid exposure - obtain special instructions before use
  - Do not handle until all safety precautions have been read and understood.
  - Minimize dust generation and accumulation
  - Do not breathe dust
  - Ensure adequate ventilation
  - Wear appropriate personal protective clothing to prevent skin contact
  - Handle in accordance with good industrial hygiene and safety practice
  - Keep away from heat/sparks/open flames/hot surfaces. - No smoking
  - Use only non-sparking tools

- 7.2. Conditions for safe storage, including any incompatibilities** Keep container tightly closed and dry. Store away from incompatible materials.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Occupational exposure limits

- OSHA** \*Dust: OSHA has not established specific exposure limits for this material. However, OSHA has established limits for particulates not otherwise regulated (PNOR) which are the least stringent exposure limits applicable to dusts.

##### Sucrose - 57-50-1

OSHA  
 NIOSH

Canada - Ontario - OEL - TWA EVs

TWA: 5 mg/m<sup>3</sup> (respirable fraction) 15 mg/m<sup>3</sup> (total dust)  
 5 mg/m<sup>3</sup> TWA (respirable dust)  
 10 mg/m<sup>3</sup> TWA (total dust)  
 10 mg/m<sup>3</sup>

- Predicted No Effect Concentration (PNEC)** No information available

- Derived No Effect Level (DNEL)** No information available

- Biological Limit Values:** No information available

#### 8.2. Exposure controls

- Engineering Measures** Provide a good standard of controlled ventilation (5 to 10 air changes per hour). Use exhaust ventilation to keep airborne concentrations below exposure limits. In

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case of insufficient ventilation, wear suitable respiratory equipment.

**Personal protective equipment**

<b>Eye/Face Protection</b>	Wear safety glasses with side shields (or goggles).
<b>Skin and Body Protection</b>	Wear suitable protective clothing.
<b>Hand Protection</b>	For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn.
<b>Respiratory Protection</b>	In case of inadequate ventilation wear respiratory protection.

**Thermal hazards** None known. Wear suitable protective clothing.

**Hygiene Measures** Follow general hygiene considerations recognized as common good workplace practices. The worker should wash daily at the end of each work shift, and prior to eating, drinking, smoking, etc.

**Environmental Exposure Controls** Dispose of in accordance with local regulations.

<b>SECTION 9: Physical and chemical properties</b>
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**9.1. Information on basic physical and chemical properties**

<b>Physical State</b>	Solid. Powder.
<b>Color</b>	White to light yellow
<b>Odor</b>	Odorless
<b>Odor Threshold</b>	No information available
<b>pH:</b>	7.0 - 10.0 solution (1 %)
<b>Melting Point / Melting Range</b>	No data available
<b>Boiling Point</b>	Not applicable
<b>Freezing Point</b>	Not applicable
<b>Flash Point:</b>	Not applicable
<b>Evaporation Rate</b>	No data available
<b>Flammability (solid, gas)</b>	Not applicable
<b>Vapor Pressure</b>	No data available
<b>Vapor Density</b>	No data available
<b>Water Solubility</b>	Soluble
<b>Partition coefficient</b>	No data available
<b>Viscosity</b>	No information available
<b>Specific Gravity</b>	No data available
<b>Oxidizing Properties</b>	No data available
<b>Decomposition Temperature</b>	No data available

<b>SECTION 10: Stability and reactivity</b>
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<b>10.1. Reactivity</b>	None
<b>10.2. Chemical stability</b>	Stable under normal conditions
<b>10.3. Possibility of hazardous reactions</b>	No specific hazard known

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**10.4. Conditions to avoid** Dust formation Keep away from heat, sparks and flame

**10.5. Incompatible materials** Strong oxidizing agents

**10.6. Hazardous decomposition products** None known

<b>SECTION 11: Toxicological information</b>
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**General Information** Users are advised to consider national Occupational Exposure Limits or other equivalent values.

**Information on Likely Routes of Exposure**

<b>Inhalation</b>	Do not breathe dust.
<b>Skin</b>	Not a skin sensitizer. Prolonged or repeated contact may dry skin and cause irritation.
<b>Eyes</b>	Dust contact with the eyes can lead to mechanical irritation.
<b>Ingestion</b>	Ingestion is not a likely route of exposure.
<b>Aspiration hazard</b>	Not an expected route of exposure.

**11.1. Information on toxicological effects**

<u>Carrageenan - 9000-07-1</u> Oral LD50	5400 mg/kg Rat
<u>Sucrose - 57-50-1</u> Oral LD50	29,700 mg/kg Rat

**Acute Toxicity** Based on available data, the classification criteria are not met.

**Serious eye damage/eye irritation** Based on available data, the classification criteria are not met.

**Respiratory Sensitization** Based on available data, the classification criteria are not met.

**Skin Corrosion/Irritation** Based on available data, the classification criteria are not met.

**Skin Sensitization** Based on available data, the classification criteria are not met.

**Mutagenicity** Based on available data, the classification criteria are not met.

**Reproductive Toxicity** Based on available data, the classification criteria are not met.

**Carcinogenicity** Based on available data, the classification criteria are not met.

**Specific target organ toxicity - Single exposure** No data available.

**Specific target organ toxicity - Repeated exposure** No data available.

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<b>SECTION 12: Ecological information</b>
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**12.1. Ecotoxicity****Sucrose - 57-50-1**

WGK Classification (AwSV) 9667 WGK: 1

**12.2. Persistence and degradability** Readily biodegradable.

**12.3. Bioaccumulative potential** This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).

**Partition coefficient** No data available.

**Bioconcentration factor (BCF)** Not available.

**12.4. Mobility in soil** No data available.

**12.5. Results of PBT and vPvB assessment** This substance does not meet the criteria for classification as PBT or vPvB.

**12.6. Other adverse effects** None known

<b>SECTION 13: Disposal considerations</b>
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**13.1. Waste treatment methods**

**Contaminated Packaging** Product residue may remain in empty containers. Empty containers should be taken to an approved waste handling site for recycling or disposal.

**Waste codes** Waste codes should be assigned by the user based on the application for which the product was used

**Disposal Methods** Disposal should be in accordance with applicable regional, national and local laws and regulations

**Carrageenan - 9000-07-1**

European Waste Catalog 160306

**Sucrose - 57-50-1**

European Waste Catalog 020499

<b>SECTION 14: Transport information</b>
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**Mode of Transportation (Road, Water, Air, Rail)**

<b>TDG -Canada</b>	Not regulated
<b>US DOT</b>	Not regulated
<b>ADR</b>	Not regulated
<b>RID</b>	Not regulated
<b>ADN</b>	Not regulated

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IATA Not regulated  
IMDG/IMO Not regulated  
ICAO Not regulated

14.1. UN number None  
14.2. UN proper shipping name None  
14.3. Transport hazard class(es) None  
14.4. Packing group None  
14.5. Environmental hazards No  
14.6. Special precautions for user Not applicable

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code  
Not applicable

## SECTION 15: Regulatory information

## Global Inventories

Pure substance/mixture Mixture

Chemical Name	CAS Number	EC No	REACH registration number	Australia (AICS)	Canada (DSL)	China (IECSC)	Japan	S. Korea (KECL)	Mexico	New Zealand	Philippines (PICCS)	Taiwan	TSCA: United States
Carrageenan	9000-07-1	232-524-2	Exempt	Y	Y	Y	N	KE-14-0067	Y	Y	Y	Y	A
Sucrose	57-50-1	200-334-9	Exempt	Y	Y	Y	8-(4)-345 (ISHL)	KE-17258	Y	Y	Y	Y	A

## Legend

X / Y: Complies ; A: Active ; - / N: Exempt / Not Listed

## US Federal Regulations

## EPA

## 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 302

This product does not contain any components regulated under Section 302 (40 CFR 355) as Extremely Hazardous Substances.

## U.S. State Right-to-Know Regulations

Chemical Name	CAS Number	California Proposition 65	Massachusetts	Minnesota	New Jersey	Pennsylvania
Carrageenan	9000-07-1	N	Y	Y	N	Y



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Sucrose	57-50-1	N	Y	Y	N	Y
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**CANADA****WHMIS:**

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR

<b>SECTION 16: Other information</b>
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<b>Prepared by</b>	CP Kelco Global Regulatory Affairs Email: Regulatory.Affairs@cpkelco.com
<b>Reason for Version</b>	OSHA (Occupational Safety and Health Administration of the US Department of Labor).
<b>Training Advice</b>	Do not handle until all safety precautions have been read and understood.
<b>Sources of key data:</b>	Literature data and/or investigative reports are available through the manufacturer.
<b>Abbreviations and acronyms</b>	<p>International Agency for Research on Cancer (IARC)          International Air Transport Association (IATA)          International Maritime Dangerous Goods (IMDG)          International Uniform Chemical Information Database (IUCLID)          Workplace Hazardous Materials Information System (WHMIS) status and classification          EPA SARA Title III Section 312 (40 CFR 370) Hazard Classification          DOT (Department of Transportation)          OSHA (Occupational Safety and Health Administration of the US Department of Labor)          TWA - Time-Weighted Average          Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA)          The Classification, Labeling and Packaging of Substances and Mixtures (CLP) Regulation (EC 1272/2008)          PPE - Personal Protection Equipment          NIOSH - National Institute for Occupational Safety and Health          TDG (Transport of Dangerous Goods) Canada          CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act)          Reportable Quantity (RQ) (RQ/% in mixture)          STEL - Short Term Exposure Limit          TLV® - Threshold Limit Value          Derived No Effect Level (DNEL)          SVHC: Substances of Very High Concern for Authorization:          Land transport (ADR/RID)          Biochemical oxygen demand (BOD)          Chemical oxygen demand (COD)          ICAO (air)          (IMDG) International Maritime Dangerous Goods          Positive Pressure Self-Contained Breathing Apparatus (SCBA)          Predicted No Effect Concentration (PNEC)          Globally Harmonized System (GHS)</p>

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

**End of Safety Data Sheet**

CP KELCO

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