



SDS

SAFETY DATA SHEET

RUPERT, GIBBON & SPIDER PO BOX 425, HEALDSBURG CA, 95448 TEL: (707) 433-9577 FAX: (707) 433-4906

Revision Date: 11/07/2017

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name Carrageenan

Other means of identification

Product Code(s) CHM0003, CHM1003, CHM2003

Synonyms Carrageenan: Chondrus crispus (Carrageenan) extract (INCI name), Carrageenan, Irish moss, Chondrus extract, Seaweed flour

Chemical Family Polysaccharides

Recommended use of the chemical and restrictions on use

Recommended Use: Natural gelling agent that provides a viscous surface for marbling

Restrictions on Use: See section 16 for more information

Manufacturer:

Rupert Gibbon & Spider, Inc.

1147 Healdsburg Ave.

Healdsburg, CA 95448

800-442-0455/707-433-9577

Emergency number:

CHEMTREC (24HR Emergency Telephone),
call: 1-800-424-9300

International CHEMTREC, call: 1-703-527-3887

For non-emergency assistance, call: 800-442-0455

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

**GHS Label elements, including precautionary statements****EMERGENCY OVERVIEW****Warning****Physical Hazards**

May form combustible dust concentrations in air

Hazards not otherwise classified (HNOC)

Aspiration or inhalation of this product could cause chemical pneumonitis. Excessive inhalation of dust can mechanically impede respiration. Due to the hygroscopic properties of the gums, they can form a paste or gel in the airway.

Other Information

No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS**Chemical Family** Polysaccharides.

Chemical name	CAS-No	Weight %
Carrageenan	9000-07-1	100

* The exact percentage composition has been withheld as a trade secret.

Synonyms are provided in Section 1.

4. FIRST AID MEASURES

Eye Contact	Flush eyes with water as a precaution. Get medical attention if eye irritation develops or persists.
Skin Contact	Wash with water and soap as a precaution.
Inhalation	Remove person to fresh air. If breathing is difficult or if discomfort occurs and persists, obtain medical attention.
Ingestion	Never give anything by mouth to an unconscious person. Drink plenty of water. Get medical attention if symptoms occur.
Most important symptoms and effects, both acute and delayed	Difficulty breathing. Cough.
Indication of immediate medical attention and special treatment needed, if necessary	Aspiration or inhalation of this product could cause chemical pneumonitis. Treatment is symptomatic and supportive.



5. FIRE-FIGHTING MEASURES

- Suitable Extinguishing Media** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Unsuitable extinguishing media** None known.
- Specific Hazards Arising from the** Avoid dust formation Fine dust dispersed in air, in sufficient concentrations, and in the



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Chemical	presence of an ignition source is a potential dust explosion hazard.
<u>Explosion data</u>	
Sensitivity to Mechanical Impact	Not sensitive.
Sensitivity to Static Discharge	Static electricity might be sufficient to ignite dust clouds. Possibility of ignition will depend on the minimum ignition energy (MIE) and the type of operations undertaken with the material. MIE values are not provided in this SDS.
Protective equipment and precautions for firefighters	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Avoid dispersal of dust in the air (i.e., cleaning dust surfaces with compressed air.). Avoid breathing dust. Powder may become slippery when wet. For personal protection see section 8.
Other	For further clean-up instructions, call FMC Emergency Hotline number listed in Section 1 "Product and Company Identification" above.
Environmental Precautions	See Section 12 for additional Ecological Information.
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.

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.
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.
Incompatible products	Oxidizing agents. Strong acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls

Engineering measures	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.
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Individual protection measures, such as personal protective equipment

Eye/Face Protection

Safety glasses.

Skin and Body Protection

Minimize skin contamination by following good industrial hygiene practices. Use gloves if extended exposure is anticipated.



Hand Protection	Protective gloves
Respiratory Protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice.
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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Dry powder Free flowing powder
Physical State	Solid Color Off-white
Odor	Slight marine
Odor threshold	No information available
pH	7.0 - 10.5
Melting point/freezing point	Not applicable
Boiling Point/Range	No information available
Flash point	Not applicable
Evaporation Rate	No information available
Flammability (solid, gas)	No information available
Flammability Limit in Air	
Upper flammability limit:	No information available
Lower flammability limit:	No information available
Vapor pressure	No information available
Vapor density	No information available
Density	No information available
Specific gravity	No information available
Water solubility	10% maximum (% by weight)
Solubility in other solvents	No information available
Partition coefficient	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Viscosity, kinematic	No information available
Viscosity, dynamic	No information available
Explosive properties	No information available
Oxidizing properties	No information available
Molecular weight	No information available
Bulk & Relative density	No information available
K_{st}	>0 bar m/s

10. STABILITY AND REACTIVITY

Reactivity	Not applicable
Chemical Stability	Stable under recommended storage conditions.
Possibility of Hazardous Reactions	None under normal processing.
Hazardous polymerization	Hazardous polymerization does not occur.



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Conditions to avoid Dust formation. Excessive heat. Humid air. Sparks.
Incompatible materials Oxidizing agents. Strong acids.
Hazardous Decomposition Products Burning produces obnoxious and toxic fumes: Sulfur oxides.

**11. TOXICOLOGICAL INFORMATION****Product Information**

5000 2002

Sensitization

Not expected to be sensitizing based on the components.

Component Information

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Carrageenan (9000-07-1)	5400 mg/kg (Rat)		>0.93 mg/l (4h) (Rat)*

* No mortality was observed at the maximum attainable concentration.

Information on toxicological effects**Symptoms**

No information available.

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

Product does not present a chronic toxicity hazard based on known or supplied information.

Mutagenicity

No known mutagenic or teratogenic effects.

Carcinogenicity

Contains no ingredient listed as a carcinogen

Reproductive toxicity

This product does not contain any known or suspected reproductive hazards.

STOT - single exposure

None known.

STOT - repeated exposure

None noted in chronic animal studies.

Aspiration hazard

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

12. ECOLOGICAL INFORMATION**Ecotoxicity**

The environmental impact of this product has not been fully investigated. Carrageenan is an extract of seaweeds of the class Rhodophyceae (red seaweeds).

Persistence and degradability

Expected to biodegrade, based on component information.

Bioaccumulation

Bioaccumulation is unlikely.

Mobility

No information available.

Other Adverse Effects

None known.

13. DISPOSAL CONSIDERATIONS**Waste disposal methods**

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.



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Contaminated Packaging

Dispose of in accordance with federal, state and local regulations.

14. TRANSPORT INFORMATION

DOT

NOT REGULATED

TDG

NOT REGULATED



15. REGULATORY INFORMATION

U.S. Federal Regulations

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 311/312 Hazard Categories

Acute health hazard	No
Chronic health hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations

California Proposition 65

This product does NOT contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

This product does not contain any substances regulated by state right-to-know regulations

International Inventories

A food, food additive, drug, cosmetic, or device, when manufactured, processed or distributed in commerce for use as a food, food additive, drug, cosmetic, or device is not subject to the notification requirements of 40 CFR 720.

Chemical name	TSCA (United States)	DSL (Canada)	EINECS/ELINC S (Europe)	ENCS (Japan)	China (IECSC)	KECL (Korea)	PICCS (Philippines)	AICS (Australia)
Carrageenan 9000-07-1	X	X	X		X		X	X

Mexico - Grade

Minimum risk, Grade 0



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WHMIS Statement

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

WHMIS Hazard Class See section 2 for more information

16. OTHER INFORMATION

NFPA	Health Hazards 1	Flammability 1	Instability 0	Special Hazards -
HMIS	Health Hazards 1	Flammability 1	Physical hazard 0	Personal Protection X

**Indicates a chronic health hazard.*

Revision date: 2017-11-07

Disclaimer

Refer to NFPA 654, *Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids*, for safe handling.

The information contained in this SDS is based on data from sources considered to be reliable but Rupert, Gibbon & Spider, Inc. does not guarantee the accuracy or completeness thereof. Rupert, Gibbon & Spider Inc. urges each customer or recipient of this SDS to study it carefully to become aware of and understand the hazards associated with this product. The reader should consider consulting reference works or individuals who are experts in ventilation, toxicology or fire and understand the data in this SDS.

End of Safety Data Sheet