



SAFETY DATA SHEET

LAST REVISION DATE: 9/25/2024

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier

Product Name: Sodium Citrate

Product SKU: 1008

1.2 Relevant Identified Uses of The Substance and Uses Advised Against

Common Uses:

1. Adjusts pH control (In combination with Citric Acid) in the food, beverage and pharmaceutical industries.
2. Used as an anticoagulant agent in the meat industry.
3. Stabilizes emulsified fat, complexes calcium ions in cheese industry.
4. Bio-degradable detergent builder.

Used Advised Against: Not for use in the preparation of injectable solutions.

1.3 Name, Address, And Telephone of The Responsible Party

Operations

25 Harold L Dow Highway

Eliot, ME 03903 USA

888-578-3932

Modernistpantry.com

1.4 Emergency Telephone Number

Emergency number: 888-578-3932

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification in accordance with Regulation (EC) No. 1272/2008 (CLP):

Not classified

2.2 Label Elements

Labeling in accordance with Regulation 1272/2008 (CLP):

Hazard Pictogram(s): Not required





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Signal Word: Not required
Hazard statement(s): Not required
Precautionary Statements(s): Not required

2.3 Other Hazards

Not available.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance

Substance Name	Identifiers	%	CLP Classification
Tri Sodium Citrate, Dihydrate	CAS number: 6312-04-3 EC number: 200-675-3 REACH registration no(s): 01-2119457027-40-0001	100	Not classified

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in section 8.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation: Remove the victim from site of exposure to fresh air. If breathing is difficult, give oxygen. If not breathing give artificial respiration. Get medical attention.

Skin contact: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Get medical attention.

Eye contact: In case of contact with eyes, rinse immediately with plenty of water for at least 15 minutes. Get medical attention.

Ingestion: Do Not Induce Vomiting. If victim is conscious, wash mouth thoroughly with plenty of water. Never give anything by mouth to an unconscious person. Get medical attention.

4.2 Most important symptoms and effect, both acute and delayed





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See section 2.2 (Label elements) and/or section 11 (Toxicological Information) for the most important known symptoms and effects.

4.3 Indication of any immediate medical attention and special treatment needed

Not available

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Dry chemical, carbon dioxide, water spray, alcohol-resistant foam.

Unsuitable extinguishing media: N/A

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products: irritating and toxic fumes.

5.3 Advice for firefighters

Special Protective Equipment for Fire Fighters: Fire fighters should wear full protective clothing and self-contained breathing apparatus in positive pressure mode. Move containers from the fire area, if possible, to do so without risk.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid contact with skin, eyes, and breathing dust. Ensure adequate ventilation. Remove all sources of ignition. Ventilate area of spill.

6.2 Environmental precautions

Prevent entry to waterways, sewers, basements or confined areas.

6.3 Methods and material for containment and cleaning up

Pick up and place in a suitable container for reclamation or disposal, using a method that does not generate dust. In case of dust production: keep upwind. Clean contaminated surfaces with an excess of water.

6.4 Reference to other sections

See Section 1 for emergency contact information.





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SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of dust. Wash thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should be hands and face before eating, drinking, and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also section 8 for additional information.

7.2 Conditions for safe storage, including any incompatibilities

Storage Conditions: Keep container tightly closed, in a dry and cool place. Keep away from heat, sparks and open flame. Keep away from combustible and flammable materials. Do not store together with strong acids, reducing agents and strong oxidizing agents.

7.3 Specific end use(s)

N/A

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limit values : N/A

8.2 Exposure Controls

Engineering Measure: Use process enclosures, local exhaust ventilation, or others engineering controls to keep airborne levels below recommend exposure limits. If user operations generate dust, fume, or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protective Measures:

Hand Protection: Wear chemically rubber or polyethylene gloves. Do no use PVA gloves.

Eye and Face Protection: Wear protective safety glasses.

Skin and Body Protection: Wear appropriate long-sleeved clothing to minimize skin contact.

Respiratory Protection: Disposable particulate mask. Be sure to use an approved/certified equipment or equivalent equipment. Wear appropriate respirator wen ventilation is inadequate.





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Environmental Exposure Controls: Not available

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	: White crystals
Odor	: Practically odorless
Odor Threshold	: Not available
pH	: 7.5-9 at 29.4 g/l at 25°C
Evaporation rate	: Not available
Melting point/Freezing point	: >300°C
Boiling point	: Not available
Flash point	: Not available
Auto-ignition temperature	: 345°C
Decomposition temperature	: Not available
Flammability (solid, gas)	: Not available
Lower flammable limit	: Not available
Upper flammable limit	: Not available
Vapor pressure	: Not available
Relative density	: Not available
Solubility	: In water: 71gr/100 ml at 25°C; In ethanol: insoluble
Partition coefficient: n-octanol/water	: Not available
Viscosity	: Not available
Explosive Properties	: Not explosive

9.2 Other Information

Molecular weight: 294.11 gr/mol

Taste: Saline taste

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Not available

10.2 Chemical stability





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This product is stable under normal handling and storage conditions described in Section 7.

10.3 Possibility of hazardous reactions

Hazardous reactions are not expected, under normal conditions of storage and use.

10.4 Conditions to avoid

Heat, sparks, and open flame.

10.5 Incompatible materials

Strong acids, strong oxidizers, and reducing agents.

10.6 Hazardous decomposition products

Other decomposition products : Not available

In the event of fire: See section 5

SECTION 11 : TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects - product

Acute Toxicity: Not available

Skin Corrosion/Irritation: Not available

Eye Damage/Irritation: Not available

Respiratory or Skin Sensitization: Not available

Germ Cell Mutagenicity: Citric acid has been tested in a number of bacterial assays, all of which gave negative results. There is information from a lower reliability study that citric acid and sodium dihydrogen citrate do not cause chromosome aberrations in vitro: this result does not agree with a recently published study. Evidence for genetic toxicity has been described in a recent publication of results from an in vitro. An in vivo chromosome aberration study does not support the conclusion of the recently reported in vitro studies in mammalian cells, and an in vivo rodent dominant lethal assay also showed no evidence of chromosome damage, so it is considered that the in vitro results do not reflect a potential for genetic toxicity. Citric acid is negative in in vivo genotoxicity testing, although effects have been observed in some in vitro studies. Moreover, it has been used as a food additive over a long period. In addition, citrate plays a central role in cellular metabolism, so it is considered that classification for mutagenicity is not required. Information available in the public domain on tests carried out on other salts of sodium, calcium, potassium and magnesium indicates that the metal ions are not expected to contribute to the genetic toxicity of their corresponding salts. Therefore, information from citric acid may be read-across to the other citrate salts in this category, and information may be read-across between





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the citrate salts, and classification of the citrate salts in the category for mutagenicity is not required. It is not expected that sodium, calcium, potassium or magnesium counter ions will contribute significantly to the genetic toxicity of their corresponding salts. Therefore, information from citric acid may be readacross to the other citrate salts in this category, and information may be read across between the citrate salts, and classification of the citrate salts in the category for mutagenicity is not required.

Carcinogenicity: Citric acid: In a rat feeding study, animals dosed with 5% citric acid in the diet did show an excess of tumours in comparison with control animals when tested over a period of 2 years. However, there was some evidence that high doses of citrate salts potentiated the incidence of tumours produced by coadministration of known bladder carcinogens. Where citric acid or citrate salts were administered alone during these studies, no dose-related tumours were noted. It is not expected that sodium, calcium, potassium or magnesium counter ions will contribute significantly to the genetic toxicity of their corresponding salts. Therefore, it is possible to reliably read-across from citric acid to the other citrate salts in this category.

Reproductive Toxicity: Citric acid: various studies on rats, mice and guinea pigs using several different conditions and protocols: prior to mating, during pregnancy and a two-generation study were summarized in the OECD report. In some the doses were defined and in others the regimen was ad libitum feeding of a defined concentration of citric acid in the diet, with or without measurement of food uptake. No adverse effects on females or fetuses were reported except slight dental attrition of the females in some of the studies. The NOEL values reported were often meaningless as it was the only dose used, and that gave no adverse effects. In the same report described above, Wright and Hughes (1976c) showed the same dose (5%) of citric acid in the diet of female mice and rats had no effect on the reproductive performance as measured by pregnancy rate, number of live births, still births and pup survival rate. It is not expected that sodium, calcium, potassium or magnesium counter ions will contribute significantly to the genetic toxicity of their corresponding salts. Therefore, it is possible to reliably read-across from citric acid to the other citrate salts in this category.

Specific Target Organ Toxicity (Single Exposure): Not available

Specific Target Organ Toxicity (Repeated Exposure): Not available

Aspiration Hazard: Not available

Other Effects: May be harmful if inhaled. May be harmful if swallowed. Causes irritation of the eye tissue. Causes tingling/irritation of the skin.

SECTION 12 : ECOLOGICAL INFORMATION

12.1 Toxicity





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Not available

12.2 Persistence/Degradability

Not available

12.3 Bioaccumulative potential

Not available

12.4 Mobility in soil

Not available.

12.5 Other adverse effects

Not available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Hazardous waste: Waste material code (Flanders): 213

Packing: Empty containers should be taken for local recycling, recovery or waste disposal.

SECTION 14: TRANSPORT INFORMATION

14.1 Un number

ADR/RID: - IMDG: - IATA: -

14.2 Proper shipping name

ADR/RID: Not regulated

IMDG: Not regulated

IATA: Not regulated

14.3 Transport hazard class(es)

ADR/RID: - IMDG: - IATA: -

14.4 Packing group





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ADR/RID: - IMDG: - IATA: -

14.5 Environmental hazard

Marine Pollutant: No

14.6 Special precautions for user

Not available

14.7 Transport to bulk according to Annex II of MARPOL 79/78 and the IBC Code

Not available

15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

In accordance with REACH article 14, a chemical safety report has been carried out for citrates.

15.2 Chemical Safety Assessment

Not available

SECTION 16: OTHER INFORMATION

Training advice: Before using/handling the product one must read carefully the present SDS.

Key Legend Information:

CAS - Chemical Abstract Service

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

NTP - National Toxicology program

IARC - International Agency for Research on Cancer

N/A - Not available

H - statements- Hazard statements





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TLV - Threshold Limit Value

TWA - Time-weighted average

STEL - Short-Term Exposure Limit

CSA - Chemical safety assessment

Other Information: This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.





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1.1 Product Identifier

Product Name: Calcium Chloride

Product SKU: 1004

1.2 Name, Address, And Telephone Of The Responsible Party

Operations

25 Harold L Dow Highway

Eliot, ME 03903 USA

888-578-3932

Modernistpantry.com

1.3 Emergency Telephone Number

Emergency number: 888-578-3932

SECTION 2: HAZARDS IDENTIFICATION

2.1 Hazard Classification

Health Hazards

Acute toxicity (oral): Category 4

Serious eye damage/eye irritation: Category 2A

Specific target organ toxicity - single

Exposure: Category 3

Target Organs

1. Respiratory tract irritation.
2. Unknown toxicity - Health Acute toxicity, inhalation, dust or mist 100 %

2.2 Label Elements

Signal word: Warning

Hazard Statements: Harmful if swallowed

Causes serious eye irritation

May cause respiratory irritation





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Hazard symbol:



Precautionary Statements

Prevention:

Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid breathing dust. Use only outdoors or in a well-ventilated area. Wear protective clothing. Wear eye protection.

Response:

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Storage:

Store in a well-ventilated place. Keep container tightly closed.

Disposal:

Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

2.3 Other hazards which do not result in GHS classification

None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixtures

Chemical Identity	CAS Number	Content in Percent (%)*
Calcium Chloride	10043-52-4	90-100%

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent in volume.





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SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

First-aid measures general: Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance.

First-aid measures after inhalation: Move to fresh air. Get medical attention if symptoms persist.

First-aid measures after skin contact: Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing. Wash contaminated clothing before reuse.

First-aid measures after eye contact: Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention if symptoms persist.

First-aid measures after ingestion: Rinse mouth thoroughly. Call a POISON CENTER or doctor/physician if you feel unwell.

4.2 Most important symptoms and effect, both acute and delayed

Irritating to eyes, respiratory system and skin.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Symptoms may be delayed.

SECTION 5: FIREFIGHTING MEASURES

5.1 General fire hazards

The product is non-combustible.

5.2 Extinguishing media

Suitable extinguishing media: Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media: None known.

5.3 Special hazards arising from the chemical

During fire, gases hazardous to health may be formed.

5.4 Special protective equipment and precautions for firefighters

Special fire fighting procedures: Move containers from fire area if you can do so without risk. Use water spray to keep fire-exposed containers cool. Cool containers exposed to flames with water until well after the fire is out.





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Special protective equipment for fire-fighters: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Keep unauthorized personnel away. Use personal protective equipment. See Section 8 of the MSDS for Personal Protective Equipment.

6.2 Methods and material for containment and cleaning up

Sweep up and place in a clearly labeled container for chemical waste. Clean surface thoroughly to remove residual contamination.

6.3 Notification procedures

Prevent entry into waterways, sewer, basements or confined areas. Inform authorities if large amounts are involved.

6.4 Environmental precautions

Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Use personal protective equipment as required. Avoid contact with eyes, skin, and clothing. Avoid inhalation of dust. Wash thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

Keep containers tightly closed. Store in a well-ventilated place. Store in a dry place.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limits:

None of the components have assigned exposure limits.





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8.2 Appropriate engineering controls

No data available.

8.3 Individual protection measures, such as personal protective equipment

General information: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Eye/face protection: Use tight fitting goggles if dust is generated.

Skin protection

Hand protection: Chemical resistant gloves.

Other: Wear suitable protective clothing.

Respiratory protection: In case of inadequate ventilation use suitable respirator.

Hygiene measures: Provide eyewash station and safety shower. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical form	: Solid
Form	: Granules
Color	: White to light grey
Odor	: Odorless
Odor threshold	: No data available
pH	: 8 - 9 aqueous solution
Melting point/freezing point	: 772 °C
Initial boiling point and boiling range	: 1,670 °C
Flash point	: Not applicable
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available





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Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%) : No data available

Flammability limit - lower (%) : No data available

Explosive limit - upper (%) : No data available

Explosive limit - lower (%) : No data available

Vapor pressure : No data available

Density : 2.15 g/ml (20 °C)

Relative density : 2.15 (20 °C)

Solubility(ies)

Solubility in water : Soluble

Solubility (other) : No data available

Partition coefficient (n-octanol/water) : No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Viscosity : No data available

Molecular weight : 110.99 g/mol (CaCl₂)

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Material is stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous polymerization does not occur. The substance is hygroscopic and will absorb water by contact with the moisture in the air.

10.4 Conditions to avoid

Excessive heat. Water, moisture.

10.5 Incompatible materials

Strong oxidizing agents.





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10.6 Hazardous decomposition products

Oxides of calcium. Hydrogen Chloride.

SECTION 11 : TOXICOLOGICAL INFORMATION

11.1 Information on likely routes of exposure

Ingestion: Harmful if swallowed. May cause irritation of the gastrointestinal tract.

Inhalation: May cause irritation to the respiratory system.

Skin contact: Causes mild skin irritation.

Eye contact: Causes serious eye irritation.

11.2 Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: LD 50 (Rat): 1,000 mg/kg - 4,179 mg/kg

Dermal

Product: LD 50 (Rabbit) > 5,000 mg/kg

Inhalation

Product: No data available.

Repeated dose toxicity

Product: No data available.

11.3 Skin corrosion/irritation

Product: Causes mild skin irritation.

11.4 Serious eye damage/eye irritation

Product: Causes serious eye irritation.

11.5 Respiratory or skin sensitization

Product: Not a skin sensitizer.

11.6 Carcinogenicity

Product: This substance has no evidence of carcinogenic properties.





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IARC Monographs on the Evaluation of Carcinogenic Risks to Humans: No carcinogenic components identified.

US. National Toxicology Program (NTP) Report on Carcinogens: No carcinogenic components identified.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): No carcinogenic components identified.

11.7 Germ cell mutagenicity

In vitro

Product: No mutagenic components identified.

In vivo

Product: No mutagenic components identified.

11.8 Reproductive toxicity

Product: No components toxic to reproduction.

11.9 Specific target organ toxicity - single response

Product: Respiratory tract irritation.

11.10 Specific target organ toxicity - repeated exposure

Product: None known.

11.11 Aspiration hazard

Product: Not classified.

11.12 Other effects

None known.





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SECTION 12 : ECOLOGICAL INFORMATION

12.1 Ecotoxicity

Acute hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s):

Calcium chloride LC 50 (Bluegill (*Lepomis macrochirus*), 96 h): 9,500 – 11,300 mg/l
LC 50 (Western mosquitofish (*Gambusia affinis*), 96 h): 13,400 mg/ l
LC 50 (Fathead minnow (*Pimephales promelas*), 96 h): 3,930 - 5,360 mg/l

Aquatic invertebrates

Product: No data available.

Specified substance(s):

Calcium chloride EC 50 Calanoid copepod (*Eudiaptomus padanus padanus*), 48 h): 2,933 - 5,455 mg/l
EC 50 (Water flea (*Daphnia magna*), 48 h): 464 - 2,400 mg/l
EC 50 (Cyclopoid copepod (*Cyclops abyssorum prealpinus*), 48 h): 5,302 - 9,242 mg/l
LC 50 (Water flea (*Ceriodaphnia dubia*), 48 h): 1,770 - 2,030 mg/l
LC 50 (Water flea (*Daphnia magna*), 48 h): 760 - 3,230 mg/

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Aquatic invertebrates

Product: No data available.

Toxicity to aquatic plants

Product: No data available.

12.2 Persistence and degradability

Biodegradation

Product: There are no data on the degradability of this product.

BOD/COS ration





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Product: No data available.

12.3 Bioaccumulative potential

Bioconcentration factor (BCF)

Product: No data available on bioaccumulation.

Partition coefficient n-octanol/water (log Kow)

Product: No data available.

12.4 Mobility in soil

The product is water soluble and may spread in water systems.

12.5 Other adverse effects

The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Disposal instructions

Discharge, treatment, or disposal may be subject to national, state, or local laws.

13.2 Contaminated packaging

Since emptied containers retain product residue, follow label warnings even after container is emptied.

SECTION 14: TRANSPORT INFORMATION

DOT: Not regulated.

IMDG: Not regulated.

IATA: Not regulated.

SECTION 15: REGULATORY INFORMATION

15.1 US federal regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)





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None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4)

None present or none present in regulated quantities.

Superfund amendments and reauthorization act of 1986 (SARA)

Hazard categories: Acute toxicity (any route of exposure)
Serious eye damage or eye irritation
Specific target organ toxicity (single or repeated exposure)

SARA 302 extremely hazardous substance: None present, or none present in regulated quantities.

SARA 304 emergency release notification: None present or none present in regulated quantities.

SARA 311/312 hazardous chemical:

<u>Chemical identity</u>	<u>Threshold planning quantity</u>
Calcium chloride	10,000 lbs

SARA 313 (TRI reporting): None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3): None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): None present or none present in regulated quantities.

15.2 US federal regulations

US. California Proposition 65: No ingredient regulated by CA Prop 65 present.

US. New Jersey Worker and Community Right-to-Know Act: No ingredient regulated by NJ Right-to-Know Law present.

US. Massachusetts RTK - Substance List: No ingredient regulated by MA Right-to-Know Law present.

US. Pennsylvania RTK - Hazardous Substances: No ingredient regulated by PA Right-to-Know Law present.

US. Rhode Island RTK: No ingredient regulated by RI Right-to-Know Law present.

15.3 International Regulations

Montreal Protocol:	Not applicable
Stockholm Convention:	Not applicable
Rotterdam Convention:	Not applicable
Kyoto Protocol:	Not applicable



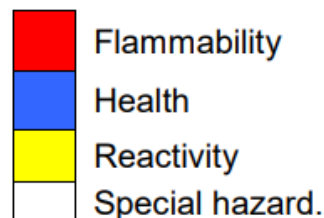
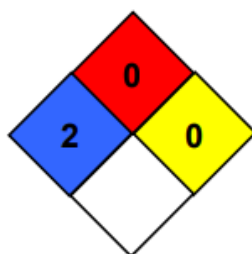


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SECTION 16: OTHER INFORMATION

NFPA Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

Disclaimer

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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier

Product Name: Sodium Alginate

Product SKU: 1007

1.2 Intended Use of the Product

Use of the substance/preparation: Emulsifying, Gelling, Stabilizing and Thickening Agent.

1.3 Name, Address, And Telephone Of The Responsible Party

Operations

25 Harold L Dow Highway

Eliot, ME 03903 USA

888-578-3932

Modernistpantry.com

1.4 Emergency Telephone Number

Emergency number: 888-578-3932

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification: Combustible Dust Category 1.

2.2 Label Elements

GHS Labels; OSHA Labels:

No hazard symbols required.

Signal word (GHS-US):

Warning

Hazard Statements:

May form combustible dust concentrations in air.

Safety Precautionars:

No Precautionary Statement needed.

Hazards not otherwise classified:

No data available





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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Chemical identity: None classified as hazardous under the OSHA Hazard Communication Standard (29CFR 1910.1200).

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

First-aid measures after inhalation: When symptoms occur; go into open air and ventilate suspected area.

First-aid measures after skin contact: Rinse with plenty of water.

First-aid measures after eye contact: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

First-aid measures after ingestion: Rinse mouth. Do NOT induce vomiting.

4.2 Most important symptoms and effect, both acute and delayed

Not expected to present a significant hazard under anticipated conditions of normal use

Symptoms/injuries after inhalation: Prolonged inhalation of dust may cause respiratory irritation.

Symptoms/injuries after skin contact: Dust may cause irritation in skin folds or by contact in combination with tight clothing.

Symptoms/injuries after eye contact: Dust from this product may cause minor eye irritation.

Symptoms/injuries after ingestion: None under normal use.

Delayed/Immediate effects: Long-term inhalation of excessive dust may cause delayed lung injury.

4.3 Indication of any immediate medical attention and special treatment needed

No additional information available.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media: Do not use a heavy water stream.





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5.2 Special hazards arising from the substance or mixture

Explosion hazard: Avoid dust clouds in combination with static electricity. Dust clouds can be explosive.

Fire hazard: Combustible Dust. Dust explosion hazard in air. Supports combustion at high temperatures. Under conditions of fire this material may produce: Carbon dioxide. Carbon monoxide.

Reactivity: Stable at ambient temperatures and under normal conditions of use.

5.3 Advice for firefighters

General measures: Exercise caution when fighting any chemical fire. Do not allow run-off from firefighting to enter drains or water courses.

Special protective equipment and precautions for firefighters: Do not enter fire areas without proper protective equipment, including respiratory protection.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

General measures: Avoid generating dust. Handle in accordance with good industrial hygiene and safety practice. Good housekeeping is needed during storage, transfer, handling, and use of this material to avoid excessive dust accumulation.

6.1.1 For non-emergency personnel

Protective equipment: Use appropriate personal protective equipment (PPE).

Emergency procedures: Evacuate unnecessary personnel.

6.1.2 For emergency responders

Protective equipment: Equip cleanup crew with proper protection.

Emergency procedures: Ventilate area.

6.2 Environmental precautions

Prevent entry to sewers and public waters.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up: Should not be released into the environment.





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6.4 Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Take precautionary measures against static discharge.

Hygiene measures: Handle in accordance with good industrial hygiene and safety procedures.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions: Keep only in the original container in a cool, well ventilated place away from: Direct sunlight. Heat sources. Keep container closed when not in use. Protect from moisture.

Special sensitivity: Not available.

7.3 Materials to avoid/chemical incompatibility

Strong bases. Strong acids.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA permissible exposure limit (PEL), American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV), and any other exposure limit used or recommended by the chemical manufacturer, importer, or employer preparing the safety data sheet, where available:

Chemical Component:

No data available

OSHA PEL:

Respirable Dust: 5 mg/m³

Total Dust: 15 mg/m³

8.1 Appropriate engineering controls

Provide adequate ventilation to minimize dust concentrations. Ensure all national/local regulations are observed. Proper grounding procedures to avoid static electricity should be followed.

8.2 Ventilation requirements

None required under normal handling conditions.



8.3 Individual protection measures, such as personal protective equipment

Dust formation: Dust mask. Gloves. Protective goggles.



Eye protection:

Skin protection

Respiratory protection

Chemical goggles or safety glasses

Wear protective gloves

Use NIOSH-approved air-purifying or supplied-air respirator where airborne concentrations of dust are expected to exceed exposure limits.

Other protective equipment

Not available

General hygiene conditions

When using, do not eat, drink or smoke

Change/removal of clothing

Wear protective equipment to comply with good occupational hygiene practice

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

Physical state	: Powder
Color	: Light tan
Odor	: Odorless
Odor threshold	: Not available
pH	: Not applicable
Melting point (°C)	: Not available
Initial boiling point and boiling range(°C)	: Not available
Flash point (°C)	: Not applicable
Evaporation Rate	: Not applicable



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Flammability (solid, gas)	: Not available
Upper flammability or explosive limits	: Not available
Lower flammability or explosive limits	: Not available
Vapor pressure	: Not available
Vapor density	: Not available
Relative density	: Not available
Partition Coefficient (n-octanol/water)	: Not available
Auto-Ignition Temperature (°C)	: No data available
Decomposition Temperature (°C)	: Not determined
Viscosity	: Not available
Volatiles	: None
Volatile organic chemicals	: Not available

SECTION 10 : STABILITY AND REACTIVITY

10.1 Reactivity

Stable at ambient temperatures and under normal conditions of use.

10.2 Chemical stability

Stable under normal conditions

10.3 Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4 Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Protect from moisture. Use good housekeeping practices during storage, transfer, handling, to avoid excessive dust accumulation.

10.5 Incompatible materials

Strong acids. Strong bases.

10.6 Hazardous decomposition products

Under conditions of fire this material may produce: Carbon oxides (CO, CO₂).





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SECTION 11 : TOXICOLOGICAL INFORMATION

11.1 Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact)

Eye Contact, Skin Contact, Inhalation, Ingestion.

11.2 Symptoms related to the physical, chemical and toxicological characteristics

No data available

11.3 Delayed and immediate effects and also chronic effects from short and long-term exposure

Acute (short-term) effects of exposure:

Unlikely to cause harmful effects under recommended conditions of handling and use.

Chronic (long-term) effects of exposure:

Effects of chronic exposure: no information available

Target organs: none known

11.4 Numerical measures of toxicity (such as acute toxicity estimates)

Chemical Name	ORAL LD50	DERMAL LD50	INHALATION LC50
No data available			

11.5 Has the chemical been classified as a carcinogen by NTP, IARC or OSHA

Chemical Name	OSHA Carcinogen	IARC Carcinogen	NTP Carcinogen
There are no components that are known or reported to cause cancer			

SECTION 12 : ECOLOGICAL INFORMATION

12.1 Toxicity

Ecotoxicity (aquatic and terrestrial, where available):

No information available

12.2 Persistence and degradability

No data available





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12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

Unknown

12.5 Other adverse effects

None known

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Disposal operations: Disposal should be in accordance with local, state or national legislation.

Empty container warnings: Empty containers may contain product residue; follow SDS and label warnings even after they have been emptied.

SECTION 14: TRANSPORT INFORMATION

DOT classification: Not regulated

UN number: Not applicable

UN proper shipping name: Not applicable

Transport hazard class(es): Not applicable

Packing group, if applicable: Not applicable

Environmental hazards (e.g., marine pollutant): No data available

Special precautions: Consult IMO regulations before transporting in bulk by ocean

SECTION 15: REGULATORY INFORMATION

15.1 TSCA Status

This product is manufactured in compliance with all provisions of the Toxic Substances Control Act, 15 U.S.C. 2601 et. seq.

15.2 SARA - Section 313 (Superfund Amendments and Reauthorization Act of 1986 - 40CFR 372)

Contains no substances at or above the reporting threshold under Section 313.





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15.3 California Proposition 65

WARNING: This product contains the following chemicals that are known to the State of California to cause cancer, birth defects or other reproductive harm. Unless a concentration is specified in Section 2 of the SDS, the below chemical/s are present in trace amounts.

Component	CAS NUMBER
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None reportable.

SECTION 16: OTHER INFORMATION

HMIS® Hazard Ratings HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on SDSs by OSHA's 29 CFR 1910.1200, we choose to provide them as a service to our customers using HMIS®. These ratings are to be used only with a fully implemented HMIS® program. To deal adequately with the safe handling of this material, all the information contained in this SDS must be considered. NPCA recommends that employers must determine appropriate PPE for the actual conditions under which this product is used in their workplace. For information on PPE codes, consult the HMIS® Implementation Manual. When two ratings are provided for Health, the first represents the material 'as supplied', and the second represents the material 'in use'. * = chronic health hazard HMIS® is a registered trademark of the National Paint and Coatings Association (NPCA).

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