

MATERIAL SAFETY DATA SHEET

ODC™ Home & Garden Colloidal Chitosan

Emergency First Aid Procedures are found in the last entry of Section Six.

Section One: Name of the Product and of the Manufacturer

Product Name:

ODC™ Home & Garden
Colloidal Chitosan

Synonyms: None

CAS Registration: 9012-76-4

EPA Chemical Code: 128930

EPA reg no. 83729-1

Manufactured and Distributed By:

AgriHouse Brands Ltd
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EPA Establishment no. 83729-CO-001

Section Two: Hazardous Ingredients/Identity Information (Maximum concentrations possible)

| Compound Name | CAS | % | NIOSH/ RTECS# | OSHA PEL | ACGIH TLV | NIOSH REL | German MAK |
|-------------------------|-----------|-------|------------------------|-------------|--------------|--------------|---------------|
| Inerts | 7732-18-5 | 99.75 | ZC0110000 | None | None | None | None |
| Chitosan (Active Agent) | 9012-76-4 | 0.25 | Unknown (FM6125000) | None | None | None | None |

Section Three: Physical and Chemical Characteristics

| | |
|----------------------------|--|
| Boiling point (°F): | 212 (at NTP) estimated from components |
| Specific Gravity | 1.07 g/ml (estimated from components) |
| Melting point: | Liquid at room temperature |
| Vapor density: | 1.8 (air equals 1) estimated from components |
| Vapor pressure: | Approx. 21 mm Hg (estimated from components) |
| Molecular weight: | Mixture |
| Solubility (%v/v): | 100% |
| Photoreactive VOCs: | Not determined |
| pH | Between 5-7 |
| Evaporation Rate (Water=1) | 1 |
| % Volatility: | <1 % |
| Odor Threshold: | Not determined |
| Taste: | Hard water taste |
| Odor: | Slight odor |
| Appearance: | Light yellow-brown liquid |

This product is a natural broad-spectrum biopesticide EPA reg. no. 83729-1, see label.

KEEP OUT OF THE REACH OF CHILDREN

CAUTION

SEE INSTRUCTIONS FOR A PRECAUTIONARY STATEMENT STATEMENTS

Allowed for indoor and outdoor use around children and pets.

| Section Four: Fire and Explosion Hazard Data | | | |
|--|--------------------------|--------|--------|
| Flash Point | Autoignition Temperature | L.E.L. | U.E.L. |
| None | None | None | None |

Extinguishing Media and Special Fire Fighting Procedures: This product will extinguish a flame.

General Fire/Explosion Discussion: This is a non-flammable product.

| Section Five: Reactivity Data and Storage Information |
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Stability: Spontaneous polymerization is not expected to occur.

Hazardous Decomposition Products: None expected.

Incompatibility: None expected.

Handling: None expected.

Storage: Store at room temperature.

| Section Six: Health Hazard Data |
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KEEP OUT OF THE REACH OF CHILDREN

CAUTION

General Discussion The material is not a significant health hazard when used according to our instructions. Small quantities entering the eyes, may be slightly irritating; small quantities entering the mouth or being swallowed are not considered to be significant. The material may dry the skin if chronic (daily exposures) are encountered.

EMERGENCY FIRST AID PROCEDURES

| FIRST AID | |
|---|---|
| If in eyes | <ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15 – 20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice. |
| If on skin or clothing | <ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 – 20 minutes. • Call a poison control center or doctor for treatment advice. |
| If inhaled | <ul style="list-style-type: none"> • Move person to fresh air • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. • Call a poison control center or doctor for further treatment advice. |
| Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-222-1222 for emergency medical treatment information. | |

Cancer Hazard:

| Compound Name | EPA | NTP | IARC | NIOSH | DFG MAK | Calif. | OSHA | ACGIH |
|---------------|-----|-----|------|-------|---------|--------|------|-------|
| Inerts | NL | NL | NL | NL | NL | NL | NL | NL |
| Chitosan | NL | NL | NL | NL | NL | NL | NL | NL |

NL=No Listing available.

Reproductive Hazard: none know

Section Seven: Precautions for Safe Handling and Use

Spills and Emergencies: For large spills (5 gallon quantities or more) flood the material to city sanitary sewer. During massive spills, workers should wear nitrile (household) gloves. Respirators are not required.

Waste Disposal The end user should determine disposal requirements for their area, as described in the label instructions.

Section Eight: Control Measures

Ventilation: Standard household ventilation should be adequate to control human exposures to this product.

Section Nine: Regulatory Issues

Environmental Regulations

Resource Conservation and Recovery Act: If this product were discarded as purchased, the material may be a listed waste under 40 CFR §261.22.

| | |
|-----------------------|---------|
| § 261.21 Ignitability | No |
| § 261.22 Corrosivity | Unknown |
| § 261.23 Reactivity | Unknown |
| § 261.24 Toxicity | No |
| F CODES | No |
| K CODES | No |
| P CODES | No |
| U CODES | No |

Water Pollution Control Act: Not determined.

Community Right to Know (SARA III): Not applicable.

Toxic Substance Control Act: All of the constituents found in the product except for chitosan (or chitin) are believed to be on the TSCA inventory.

Government Regulations:

EPA:

EPA reg. no. 83729-1
EPA Establishment no. 83729-CO-001

State Regulations:

This MSDS has been prepared to comply with the provisions found in the Federal Department of Labor OSHA Hazard Communication Standard.

Allowable for state registration in all states.

DISCLAIMER

The information contained in this MSDS relates specifically to the material and may not be valid if used in combination with other materials or in any unspecified process. The information on ODC™ Home & Garden Colloidal Chitosan is accurate to the best of our knowledge but does not purport to be all inclusive and shall only be used as a general guide. It is the user's responsibility to ensure that the product will be suitable for particular usage. The user assumes all responsibility for compliance with applicable Federal, State and Local Regulations. We do not accept liability for damage or loss that may occur from the use of this information.