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**Section 1 - PRODUCT AND COMPANY IDENTIFICATION**

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**Material Name**

Regano EX, Product Code: 9000

**Product Use**

Livestock Feed Flavoring.

**Restrictions on Use**

Use Only as Directed on Label.

**Details of the supplier of the safety data sheet**

Ralco Nutrition, Inc.

1600 Hahn Road

Marshall, MN 56258

Phone: 1-800-533-5306

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**Section 2 - HAZARDS IDENTIFICATION**

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**Classification in accordance with paragraph (d) of 29 CFR 1910.1200.**  
Serious Eye Damage/Eye Irritation - Category 2A**GHS Label Elements****Symbol(s)****Signal Word**

Warning.

**Hazard Statement(s)**

Causes serious eye irritation.

**Precautionary Statement(s)****Prevention**

Wear eye protection/face protection.

Wash thoroughly after handling.

**Response**

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**

None needed according to classification criteria.

**Disposal**

Dispose of contents/container in accordance with local/regional/national/international regulations.

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**Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS**

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| <b>CAS</b> | <b>Component Name</b> | <b>Percent</b> |
|------------|-----------------------|----------------|
| 471-34-1   | CALCIUM CARBONATE     | 70-95          |
| 61790-53-2 | Diatomaceous earth    | 10-20          |
| 14808-60-7 | Silica, Quartz        | < 0.1          |

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**Section 4 - FIRST AID MEASURES**

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**Inhalation**

If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

**Skin**

Wash thoroughly after handling.

**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.

**Ingestion**

Rinse mouth thoroughly with water.

**Most Important Symptoms/Effects****Acute**

Causes serious eye damage. Causes serious eye irritation.

**Delayed**

None Known.

**Note to Physicians**

Treat symptomatically.

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**Section 5 - FIRE FIGHTING MEASURES**

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**Extinguishing Media****Suitable Extinguishing Media**

Water spray, regular dry chemical, carbon dioxide, fire-fighting foam.

**Unsuitable Extinguishing Media**

None Known.

**Special Hazards Arising from the Chemical**

None Known.



Material Name: Regano EX

SDS ID: 9000

### Fire Fighting Measures

Co-ordinate fire-fighting measures to the fire surroundings.

### Special Protective Equipment and Precautions for Firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

## Section 6 - ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment and Emergency Procedures

Use Personal Protective equipment as required.

### Methods and Materials for Containment and Cleaning Up

Collect in closed and suitable containers for disposal.

### Environmental Precautions

None Known.

## Section 7 - HANDLING AND STORAGE

### Precautions for Safe Handling

Wear protective gloves/protective clothing/eye protection/face protection.

### Conditions for Safe Storage, Including any Incompatibilities

None needed according to classification criteria.

Store in a dry place. Store in a closed container. Protect from sunlight. Keep away from incompatible materials.

### Incompatible Materials

Strong acid, Oxidising agent, strong.

## Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

### Component Exposure Limits

|                    |  |
|--------------------|--|
| CALCIUM CARBONATE  | 471-34-1   |
| NIOSH:             | 10 mg/m3 TWA total dust; 5 mg/m3 TWA respirable dust |
| Diatomaceous earth | 61790-53-2   |
| OSHA (US):         | ((80)/(% SiO2) mg/m3 TWA); 20 mppcf TWA              |
| Mexico:            | 10 mg/m3 TWA LMPE-PPT inhalable fraction             |

|                |  |
|----------------|--|
| Silica, Quartz | 14808-60-7   |
| ACGIH:         | 0.025 mg/m3 TWA respirable fraction  |
| NIOSH:         | 0.05 mg/m3 TWA respirable dust   |
|                | 50 mg/m3 IDLH respirable dust  |
| OSHA (US):     | ((30)/(%SiO <sub>2</sub> + 2) mg/m3 TWA) total dust; ((250)/(%SiO <sub>2</sub> + 5) mppcf TWA) respirable fraction; ((10)/(%SiO <sub>2</sub> + 2) mg/m3 TWA) respirable fraction |
| Mexico:        | 0.1 mg/m3 TWA LMPE-PPT respirable fraction   |

**Biological limit value**

There are no biological limit values for any of this product's components.

**Engineering Controls**

Sufficient to maintain atmospheric concentrations below applicable regulatory limits.

**Individual Protection Measures, such as Personal Protective Equipment****Eye/face protection**

Protective glasses, Eye glasses with side protection, goggles.

**Skin Protection**

Protective clothing.

**Respiratory Protection**

In case of inadequate ventilation wear respiratory protection.

**Glove Recommendations**

Wear protective gloves.

**Section 9 - PHYSICAL AND CHEMICAL PROPERTIES**

|                              |               |   |                    |
|------------------------------|---------------|---|--------------------|
| <b>Appearance</b>            | powder        | <b>Physical State</b>                         | solid              |
| <b>Odor</b>                  | Herbal aroma  | <b>Color</b>                                  | off-white to brown |
| <b>Odor Threshold</b>        | Not available | <b>pH</b>                                     | Not available      |
| <b>Melting Point</b>         | Not available | <b>Boiling Point</b>                          | Not available      |
| <b>Freezing point</b>        | Not available | <b>Evaporation Rate</b>                       | Not available      |
| <b>Boiling Point Range</b>   | Not available | <b>Flammability (solid, gas)</b>              | Not available      |
| <b>Autoignition</b>          | Not available | <b>Flash Point</b>                            | Not available      |
| <b>Lower Explosive Limit</b> | Not available | <b>Decomposition</b>                          | Not available      |
| <b>Upper Explosive Limit</b> | Not available | <b>Vapor Pressure</b>                         | Not available      |
| <b>Vapor Density (air=1)</b> | Not available | <b>Specific Gravity (water=1)</b>             | Not available      |
| <b>Water Solubility</b>      | Not available | <b>Partition coefficient: n-octanol/water</b> | Not available      |
| <b>Viscosity</b>             | Not available | <b>Solubility (Other)</b>                     | Not available      |
| <b>Density</b>               | Not available |   |                    |

**Section 10 - STABILITY AND REACTIVITY**
**Reactivity**

No known hazardous reactions.

**Chemical Stability**

The product is stable under storage at normal ambient temperatures.

**Possibility of Hazardous Reactions**

No hazardous reaction when handled and stored according to provisions.

**Conditions to Avoid**

Avoid contact with incompatible materials. High heat can cause decomposition.

**Incompatible Materials**

Strong acid. Oxidizing agents. High heat can cause decomposition.

**Hazardous decomposition products**

Heating of product above 825° C may decompose to Calcium Oxide with a release of Carbon Dioxide.

**Thermal decomposition products**

Heating of product above 825° C may decompose to Calcium Oxide with a release of Carbon Dioxide.

**Section 11 - TOXICOLOGICAL INFORMATION**
**Acute and Chronic Toxicity**
**Component Analysis - LD50/LC50**

The components of this material have been reviewed in various sources and the following selected endpoints are published:

**CALCIUM CARBONATE (471-34-1)**

Oral LD50 Rat 6450 mg/kg

**Silica, Quartz (14808-60-7)**

Oral LD50 Rat 500 mg/kg

**Immediate Effects**

No information on significant adverse effects.

**Delayed Effects**

No information on significant adverse effects.

**Irritation/Corrosivity Data**

No data available.

**Respiratory Sensitization**

No data available.

**Dermal Sensitization**

No data available.

**Component Carcinogenicity**

|                    |   |
|--------------------|---|
| Diatomaceous earth | 61790-53-2  |
| IARC:              | Monograph 68 [1997] (Group 3 (not classifiable))                              |
| Silica, Quartz     | 14808-60-7  |
| ACGIH:             | A2 - Suspected Human Carcinogen   |
| IARC:              | Monograph 100C [2012]; Monograph 68 [1997] (Group 1 (carcinogenic to humans)) |
| NTP:               | Known Human Carcinogen (respirable size)                                      |
| DFG:               | Category 1 (causes cancer in man, alveola fraction)                           |
| OSHA:              | Present (respirable size)   |

**Germ Cell Mutagenicity**

No data available.

**Tumorigenic Data**

No data available.

**Reproductive Toxicity**

No data available.

**Specific Target Organ Toxicity - Single Exposure**

No data available.

**Specific Target Organ Toxicity - Repeated Exposure**

No data available.

**Aspiration hazard**

No data available.

**Medical Conditions Aggravated by Exposure**

No data available.

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**Section 12 - ECOLOGICAL INFORMATION**

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**Component Analysis - Aquatic Toxicity**

No LOLI ecotoxicity data are available for this product's components.

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**Section 13 - DISPOSAL CONSIDERATIONS**

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**Disposal Methods**

Dispose of contents/container in accordance with local/regional/national/international regulations.

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**Section 14 - TRANSPORT INFORMATION**

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**US DOT Information:**

No Classification assigned.

**TDG Information:**

No Classification assigned.

**Section 15 - REGULATORY INFORMATION**
**U.S. Federal Regulations**

None of this products components are listed under SARA Sections 302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.

**U.S. State Regulations**

The following components appear on one or more of the following state hazardous substances lists:

| Component          | CAS        | CA | MA  | MN  | NJ  | PA  |
|--------------------|------------|----|-----|-----|-----|-----|
| Diatomaceous earth | 61790-53-2 | No | No  | Yes | Yes | No  |
| Silica, Quartz     | 14808-60-7 | No | Yes | Yes | Yes | Yes |

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

**WARNING!** This product contains a chemical known to the state of California to cause cancer

|                |  |
|----------------|--|
| Silica, Quartz | 14808-60-7   |
| Carc:          | carcinogen , 10/1/1988 (airborne particles of respirable size) |

**Canadian WHMIS Ingredient Disclosure List (IDL)**

Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List. The List is composed of chemicals which must be identified on MSDSs if they are included in products which meet WHMIS criteria specified in the Controlled Products Regulations and are present above the threshold limits listed on the IDL.

|                |            |
|----------------|------------|
| Silica, Quartz | 14808-60-7 |
|                | 1 %        |

**Component Analysis - Inventory**
**CALCIUM CARBONATE (471-34-1)**

| US  | CA  | EU  | AU  | PH  | JP - ENCS | JP - ISHL | KR - KECI/KECL | KR - TCCA | CN  | NZ  | MX  |
|-----|-----|-----|-----|-----|-----------|-----------|----------------|-----------|-----|-----|-----|
| Yes | DSL | EIN | Yes | Yes | Yes       | No        | Yes            | No        | Yes | Yes | Yes |

**Diatomaceous earth (61790-53-2)**

| US  | CA  | EU | AU | PH  | JP - ENCS | JP - ISHL | KR - KECI/KECL | KR - TCCA | CN  | NZ  | MX  |
|-----|-----|----|----|-----|-----------|-----------|----------------|-----------|-----|-----|-----|
| Yes | NSL | No | No | Yes | Yes       | No        | Yes            | No        | Yes | Yes | Yes |



## Safety Data Sheet

**Material Name: Regano EX**
**SDS ID: 9000**
**Silica, Quartz (14808-60-7)**

| US  | CA  | EU  | AU  | PH  | JP - ENCS | JP - ISHL | KR - KECI/KECL | KR - TCCA | CN  | NZ  | MX  |
|-----|-----|-----|-----|-----|-----------|-----------|----------------|-----------|-----|-----|-----|
| Yes | DSL | EIN | Yes | Yes | Yes       | No        | Yes            | No        | Yes | Yes | Yes |

### Section 16 - OTHER INFORMATION

**Summary of Changes**

New SDS: 10/26/2015

**Key / Legend**

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of LIsts™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH- Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States.

**Other Information**
**Disclaimer:**

The information provided in this Safety Data Sheet is correct to the best of Ralco's knowledge, information and belief at the date of preparation. The information provided is designed only as guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The conditions or methods of said handling, storage, use, and disposal of this product are beyond our control. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage, or expenses arising out of or connected with the handling, storage, use, or disposal of this product. The information provided 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 text.

