

## SAFETY DATA SHEETS

**This SDS packet was issued with item:**

078690772

**The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).**

078690756



# MATERIAL SAFETY DATA SHEET

## RumaStart Capsules

### SECTION 1- PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** RumaStart Capsules

**MSDS # :** 25

**Issue Date:** 3-22-10

**Product Uses:** Supply vitamins and minerals to support nutritional levels in beef and dairy cattle during times of stress. Contains enzymes to break down feed, DFM's to assist in digestion and electrolytes to replenish fluid loss.

**Product Identification:** Tan Powder in clear capsule.

#### **Manufacturer's Name and Address:**

Van Beek Natural Science

3689 460<sup>th</sup> Street

Orange City, Iowa 51041

**For information call:** (712)-737-8398

**Fax:** (712)-737-2878

**Website:** [www.vanbeeknaturalscience.com](http://www.vanbeeknaturalscience.com)

Van Beek Natural Science follows the rules and regulation provided by the Association of American Feed Control Officials (AAFCO). The ingredients contained in the product are regulated as feed ingredients.

### SECTION 2- COMPOSITION, INFORMATION ON INGREDIENTS

| <b>Ingredient Name</b>                  | <b>CAS Number</b> |
|---|-------------------|
| Biotin                                  | 58-88-5           |
| Calcium Carbonate                       | 471-34-1          |
| Cholecalciferol (Vitamin D3)            | 67-97-0           |
| Choline Chloride                        | 67-48-1           |
| Cobalt Glucoheptonate                   | 7440-48-8         |
| Cobalt Carbonate                        | 513-79-1          |
| Copper Lysine Complex                   | N/A               |
| Copper Sulfate                          | 1344-73-6         |
| Dried Aspergillus Oryzae                | 68038-56-2        |
| Dried Aspergillus Niger                 | N/A               |
| Dried Bacillus Subtilis                 | 68038-70-0        |
| Dried Bifidobacterium Lactis            | N/A               |
| Dried Candida Rugosa                    | N/A               |
| Dried Enterococcus Faecium              | N/A               |
| Dried Lactobacillus Acidophilus         | 68333-16-4        |
| Dried Lactobacillus Casei               | 68333-14-2        |
| Dried Lactobacillus Lactis              | N/A               |
| Dried Lactobacillus Plantarum           | N/A               |
| Dried Lactobacillus Rhamnosus           | N/A               |
| Dried Saccharomyces Cerevisiae          | 68876-77-7        |
| Dried Streptococcus Diacetylactis       | N/A               |
| Dried Whey                              | N/A               |
| dl-Alpha Tocopherol Acetate (Vitamin E) | 101091-40-0       |
| d-Pantothenic Acid (Vitamin B5)         | 137-08-6          |
| Ethylenediamine Dihydroiodide           | 5700-49-2         |
| Magnesium Sulfate                       | 7487-88-9         |
| Malic Acid                              | 97-67-6           |
| Manganese Oxide                         | 12057-92-0        |
| Manganese Methionine Complex            | N/A               |
| Manganese Sulfate                       | 7785-87-7         |
| Menadione Sodium Bisulfite (Vitamin K3) | 130-37-0          |
| Niacin                                  | 59-67-6           |
| Potassium Carbonate                     | 584-08-7          |
| Retinyl Acetate (Vitamin A)             | 127-47-9          |
| Riboflavin                              | 83-88-5           |
| Rice Hulls                              | N/A               |
| Sodium Sulfate                          | 7757-82-6         |
| Sodium Silico Aluminate                 | 1344-00-9         |
| Sodium Selenite                         | 10102-18-8        |

Vitamin B12 Supplement  
Zinc Methionine Complex  
Zinc Sulfate

68-19-9  
56329-42-1  
7446-20-0

### SECTION 3- HAZARDS IDENTIFICATION

No Information Available

### SECTION 4- FIRST AID MEASURES

**Eyes:** Gently lift eyelids and flush continuously with water for at least 15 minutes.

### SECTION 5- FIRE FIGHTING MEASURES

**General Information:** Use extinguishing media appropriate to the surrounding fire.

### SECTION 6 – ACCIDENTAL RELEASE MEASURES

**General Information:** Clean up spill immediately. Use proper personal protective equipment as indicated in Section 8.

### SECTION 7- HANDLING AND STORAGE

**Handling:** Avoid contact with eyes. Use only with adequate ventilation. Keep out of reach of children. Keep container tightly closed.

**Storage:** Store at room temperature protected from light, heat, and moisture.

### SECTION 8- EXPOSURE CONTROLS, PERSONAL PROTECTION

**General Information:** Wash hands after handling the product.

#### **Personal Protective Equipment**

**Skin Protection:** Rubber gloves, lab coat or other work clothing.

**Respiratory Protection:** Use nose and mouth mask.

### SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

**Substance Type:** Mixture

**Physical State:** Powder

**Appearance:** Tan powder in clear capsule.

### SECTION 10 – STABILITY AND REACTIVITY

**Stability:** Stable under normal conditions

### SECTION 11- TOXICOLOGICAL INFORMATION

No information available

### SECTION 12- ECOLOGICAL INFORMATION

No information available

### SECTION 13- DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with federal, state, and local regulations.

### SECTION 14- TRANSPORT INFORMATION

No information available

### SECTION 15- REGULATORY INFORMATION

No information available

### SECTION 16- OTHER INFORMATION

No information available

#### **Disclaimer:**

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# SAFETY DATA SHEET

Issuing Date No data available

Revision Date 18-Jun-2015

Revision Number 1



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## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product identifier

**Product Name** RumaStart Capsule-Powder

### Other means of identification

**Synonyms** None

### Recommended use of the chemical and restrictions on use

**Recommended Use** Nutritional Supplement - Powder

**Uses advised against** No information available

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

**Supplier Name** Van Beek Natural Science

**Supplier Address** 3689 460th Street  
Orange City  
IA  
51041  
US

**Supplier Phone Number** Phone:712-737-2958  
Fax:712-737-2878

**Supplier Email** jannab@vanbeeknaturalscience.com

### Emergency telephone number

**Company Emergency Phone Number** 712-737-2958

## 2. HAZARDS IDENTIFICATION

### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).


|   |             |
|---|-------------|
| Acute toxicity - Inhalation (Dusts/Mists) | Category 4  |
| Serious eye damage/eye irritation         | Category 2  |
| Reproductive Toxicity                     | Category 1B |



Specific target organ toxicity (repeated exposure)

Category 2

**GHS Label elements, including precautionary statements****Emergency Overview**

|  |                                       |
|--|---------------------------------------|
| <b>Signal word</b>   | <b>Danger</b>                         |
| <b>Hazard Statements</b><br>Harmful if inhaled<br>Causes serious eye irritation<br>May damage fertility or the unborn child<br>May cause damage to organs through prolonged or repeated exposure |                                       |
|   |                                       |
| <b>Appearance</b> Tan  | <b>Physical state</b> Powder(s) Solid |
|  | <b>Odor</b> Slight fermentation       |

**Precautionary Statements - Prevention**

Obtain special instructions before use  
Do not handle until all safety precautions have been read and understood  
Use personal protective equipment as required  
Use only outdoors or in a well-ventilated area  
Wash face, hands and any exposed skin thoroughly after handling  
Do not breathe dust/fume/gas/mist/vapors/spray  
Wear eye/face protection

**Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention

**Eyes**

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

**Inhalation**

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

**Precautionary Statements - Storage**

Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

Not applicable

**Unknown Toxicity**

51.359% of the mixture consists of ingredient(s) of unknown toxicity



**Other information**

May be harmful if swallowed  
 Causes mild skin irritation  
 Harmful to aquatic life with long lasting effects

**Interactions with Other Chemicals**

No information available.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name   | CAS No    | Weight-% | Trade Secret |
|---|-----------|----------|--------------|
| Niacin  | 59-67-6   | 10 - 30  | *            |
| Limestone   | 1317-65-3 | 10 - 30  | *            |
| Malic acid  | 6915-15-7 | 7 - 13   | *            |
| Potassium carbonate   | 584-08-7  | 5 - 10   | *            |
| Retinyl acetate   | 127-47-9  | 1 - 5    | *            |
| Manganese(II) sulfate   | 7785-87-7 | 1 - 5    | *            |
| Choline chloride  | 67-48-1   | 1 - 5    | *            |
| 2-Naphthalenesulfonic acid,<br>1,2,3,4-tetrahydro-2-methyl-1,4-dioxo-,sodium salt | 130-37-0  | 0.1 - 1  | *            |
| 9,10-Secocholesta-5,7,10(19)-trien-3-ol,<br>(3.beta.,5Z,7E)-                      | 67-97-0   | 0.1 - 1  | *            |
| Zinc sulfate  | 7446-19-7 | 0.1 - 1  | *            |

\*The exact percentage (concentration) of composition has been withheld as a trade secret

### 4. FIRST AID MEASURES

**First aid measures****General Advice**

Show this safety data sheet to the doctor in attendance.

**Eye contact**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.

**Skin contact**

Wash with soap and water.

**Inhalation**

Remove to fresh air.

**Ingestion**

Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician.

**Most important symptoms and effects, both acute and delayed**

**Most Important Symptoms and Effects** Burning sensation. Coughing and/ or wheezing. Difficulty in breathing.

**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician** Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

### **Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### **Unsuitable extinguishing media**

CAUTION: Use of water spray when fighting fire may be inefficient.

### **Specific hazards arising from the chemical**

No information available.

#### **Uniform Fire Code**

Irritant: Solid  
Toxic: Solid  
COMBUSTIBLE DUST/POWDER

### **Hazardous Combustion Products**

Carbon oxides.

### **Explosion Data**

**Sensitivity to Mechanical Impact** No.

**Sensitivity to Static Discharge** No.

### **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, protective equipment and emergency procedures**

#### **Personal precautions**

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Ensure adequate ventilation. Avoid generation of dust. Do not breathe dust. Evacuate personnel to safe areas.

#### **Other Information**

Refer to protective measures listed in Sections 7 and 8.

### **Environmental precautions**

#### **Environmental precautions**

Refer to protective measures listed in Sections 7 and 8.

### **Methods and material for containment and cleaning up**

#### **Methods for containment**

Prevent further leakage or spillage if safe to do so.

#### **Methods for cleaning up**

Pick up and transfer to properly labeled containers.



## 7. HANDLING AND STORAGE

### Precautions for safe handling

#### Handling

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Do not breathe dust. Avoid generation of dust. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Take off contaminated clothing and wash before reuse.

### Conditions for safe storage, including any incompatibilities

#### Storage

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Store locked up.

#### Incompatible Products

None known based on information supplied.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Exposure Guidelines

| Chemical Name                      | ACGIH TLV   | OSHA PEL   | NIOSH IDLH  |
|------------------------------------|---|--|---|
| Limestone<br>1317-65-3             | -   | TWA: 15 mg/m <sup>3</sup><br>TWA: 5 mg/m <sup>3</sup><br>(vacated) TWA: 15 mg/m <sup>3</sup><br>(vacated) TWA: 5 mg/m <sup>3</sup> | TWA: 5 mg/m <sup>3</sup> respirable dust<br>TWA: 10 mg/m <sup>3</sup> total dust              |
| Manganese(II) sulfate<br>7785-87-7 | TWA: 0.02 mg/m <sup>3</sup> Mn<br>TWA: 0.1 mg/m <sup>3</sup> Mn | (vacated) Ceiling: 5 mg/m <sup>3</sup><br>Ceiling: 5 mg/m <sup>3</sup> Mn  | IDLH: 500 mg/m <sup>3</sup> Mn<br>TWA: 1 mg/m <sup>3</sup> Mn<br>STEL: 3 mg/m <sup>3</sup> Mn |

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits Immediately Dangerous to Life or Health

#### Other Exposure Guidelines

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992)

### Appropriate engineering controls

#### Engineering Measures

Showers  
Eyewash stations  
Ventilation systems

### Individual protection measures, such as personal protective equipment

#### Eye/face protection

If splashes are likely to occur: Wear safety glasses with side shields (or goggles). None required for consumer use.

#### Skin and body protection

Wear protective gloves and protective clothing.

#### Respiratory protection

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

#### Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or



smoke when using this product. Do not breathe dust. Wash hands before breaks and immediately after handling the product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Physical and Chemical Properties

|                |                          |                |                          |
|----------------|--------------------------|----------------|--------------------------|
| Physical state | Powder(s), Solid         |                |                          |
| Appearance     | Tan                      | Odor           | Slight fermentation      |
| Color          | No information available | Odor Threshold | No information available |

| Property                               | Values            | Remarks    | Method |
|--|-------------------|------------|--------|
| pH                                     | No data available | None known |        |
| Melting / freezing point               | No data available | None known |        |
| Boiling point / boiling range          | No data available | None known |        |
| Flash Point                            | No data available | None known |        |
| Evaporation Rate                       | No data available | None known |        |
| Flammability (solid, gas)              | No data available | None known |        |
| Flammability Limit in Air              |                   |            |        |
| Upper flammability limit               | No data available |            |        |
| Lower flammability limit               | No data available |            |        |
| Vapor pressure                         | No data available | None known |        |
| Vapor density                          | No data available | None known |        |
| Specific Gravity                       | No data available | None known |        |
| Water Solubility                       | Partially soluble | None known |        |
| Solubility in other solvents           | No data available | None known |        |
| Partition coefficient: n-octanol/water | No data available | None known |        |
| Autoignition temperature               | No data available | None known |        |
| Decomposition temperature              | No data available | None known |        |
| Kinematic viscosity                    | No data available | None known |        |
| Dynamic viscosity                      | No data available | None known |        |
| Explosive properties                   | No data available |            |        |
| Oxidizing properties                   | No data available |            |        |

### Other Information

|                            |                   |
|----------------------------|-------------------|
| Softening Point            | No data available |
| VOC Content (%)            | No data available |
| Particle Size              | No data available |
| Particle Size Distribution |                   |





## 10. STABILITY AND REACTIVITY

### Reactivity

No data available.

### Chemical stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

None under normal processing.

### Hazardous Polymerization

Hazardous polymerization does not occur.

### Conditions to avoid

Excessive heat.

### Incompatible materials

None known based on information supplied.

### Hazardous Decomposition Products

Carbon oxides.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

|                     |   |
|---------------------|---|
| <b>Inhalation</b>   | Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract. Harmful by inhalation. (based on components).  |
| <b>Eye contact</b>  | Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.   |
| <b>Skin contact</b> | Specific test data for the substance or mixture is not available. May cause irritation. Prolonged contact may cause redness and irritation.   |
| <b>Ingestion</b>    | Specific test data for the substance or mixture is not available. Ingestion may cause irritation to mucous membranes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. |

#### Component Information

| Chemical Name                      | Oral LD50            | Dermal LD50          | Inhalation LC50 |
|------------------------------------|----------------------|----------------------|-----------------|
| Niacin<br>59-67-6                  | -                    | > 2000 mg/kg ( Rat ) | -               |
| Potassium carbonate<br>584-08-7    | = 1870 mg/kg ( Rat ) | -                    | -               |
| Retinyl acetate<br>127-47-9        | = 4980 mg/kg ( Rat ) | -                    | -               |
| Manganese(II) sulfate<br>7785-87-7 | = 2150 mg/kg ( Rat ) | -                    | -               |
| Zinc sulfate<br>7446-19-7          | = 500 mg/kg ( Rat )  | -                    | -               |

### Information on toxicological effects

**Symptoms** May cause redness and tearing of the eyes. Coughing and/ or wheezing.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure



**Sensitization** No information available.

**Mutagenic Effects** No information available.

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Chemical Name   | ACGIH | IARC    | NTP | OSHA |
|---|-------|---------|-----|------|
| 2-Naphthalenesulfonic acid,<br>1,2,3,4-tetrahydro-2-methyl-<br>1,4-dioxo-,sodium salt<br>130-37-0 |       | Group 3 |     |      |

*IARC (International Agency for Research on Cancer)  
Group 3 - Not Classifiable as to Carcinogenicity in Humans*

**Reproductive toxicity** Contains a known or suspected reproductive toxin.

**STOT - single exposure** No information available.

**STOT - repeated exposure** Causes damage to organs through prolonged or repeated exposure. Based on classification criteria from the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200), this product has been determined to cause systemic target organ toxicity from chronic or repeated exposure. (STOT RE).

**Chronic Toxicity** No known effect based on information supplied. Contains a known or suspected carcinogen. Contains a known or suspected reproductive toxin. Possible risk of irreversible effects. Avoid repeated exposure. Prolonged exposure may cause chronic effects.

**Target Organ Effects** Eyes. Respiratory system. Reproductive System.

**Aspiration Hazard** No information available.

#### Numerical measures of toxicity Product Information

The following values are calculated based on chapter 3.1 of the GHS document

#### **ATEmix (oral)**

3,771.00 mg/kg

#### **ATEmix (dermal)**

29,185.00 mg/kg (ATE)

#### **ATEmix (inhalation-dust/mist)**

2.52 mg/l

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Harmful to aquatic life with long lasting effects.

| Chemical Name               | Toxicity to Algae                                   | Toxicity to Fish                             | Toxicity to Microorganisms                       | Daphnia Magna (Water Flea)                   |
|-----------------------------|---|--|--|--|
| Niacin<br>59-67-6           | 72h EC50: = 89.93 mg/L<br>(Desmodesmus subspicatus) | 96h LC50: = 520 mg/L<br>(Salmo trutta)       | EC50 = 160 mg/L 72 h<br>EC50 = 2792.91 mg/L 60 h | 48h EC50: = 77 mg/L                          |
| Retinyl acetate<br>127-47-9 |   | 96h LC50: 220 - 460 mg/L<br>(Leuciscus idus) |  |  |
| Choline chloride<br>67-48-1 | 72h EC50: > 500 mg/L<br>(Desmodesmus subspicatus)   | 96h LC50: > 10000 mg/L<br>(Leuciscus idus)   | EC50 = 133 mg/L 17 h                             | 48h EC50: > 500 mg/L 48h<br>EC50: > 320 mg/L |

### Persistence and Degradability

No information available.

### Bioaccumulation

| Chemical Name               | Log Pow |
|-----------------------------|---------|
| Niacin<br>59-67-6           | -0.59   |
| Retinyl acetate<br>127-47-9 | 9.4     |
| Choline chloride<br>67-48-1 | -3.77   |

### Other adverse effects

No information available.

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

|                               |   |
|-------------------------------|---|
| <b>Disposal methods</b>       | This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261). |
| <b>Contaminated Packaging</b> | Dispose of contents/containers in accordance with local regulations.                            |
| <b>US EPA Waste Number</b>    | D010  |

This product contains one or more substances that are listed with the State of California as a hazardous waste.

| Chemical Name             | California Hazardous Waste |
|---------------------------|----------------------------|
| Zinc sulfate<br>7446-19-7 | Toxic                      |

## 14. TRANSPORT INFORMATION

|                             |               |
|-----------------------------|---------------|
| <b>DOT</b>                  | NOT REGULATED |
| <b>Proper Shipping Name</b> | NON REGULATED |
| <b>Hazard Class</b>         | N/A           |



|                             |               |
|-----------------------------|---------------|
| <b>TDG</b>                  | Not regulated |
| <b>MEX</b>                  | Not regulated |
| <b>ICAO</b>                 | Not regulated |
| <b>IATA</b>                 | Not regulated |
| <b>Proper Shipping Name</b> | NON REGULATED |
| <b>Hazard Class</b>         | N/A           |
| <b>IMDG/IMO</b>             | Not regulated |
| <b>Hazard Class</b>         | N/A           |
| <b>RID</b>                  | Not regulated |
| <b>ADR</b>                  | Not regulated |
| <b>ADN</b>                  | Not regulated |

## 15. REGULATORY INFORMATION

### International Inventories

|      |  |
|------|--|
| TSCA | Complies   |
| DSL  | All components are listed either on the DSL or NDSL. |

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

### US Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

| Chemical Name                     | CAS No    | Weight-% | SARA 313 - Threshold Values % |
|-----------------------------------|-----------|----------|-------------------------------|
| Manganese(II) sulfate - 7785-87-7 | 7785-87-7 | 1 - 5    | 1.0                           |
| Zinc sulfate - 7446-19-7          | 7446-19-7 | 0.1 - 1  | 1.0                           |

#### SARA 311/312 Hazard Categories

|  |     |
|--|-----|
| <b>Acute Health Hazard</b>               | No  |
| <b>Chronic Health Hazard</b>             | Yes |
| <b>Fire Hazard</b>                       | No  |
| <b>Sudden release of pressure hazard</b> | No  |
| <b>Reactive Hazard</b>                   | No  |

#### CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

| Chemical Name             | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|---------------------------|-----------------------------|------------------------|---------------------------|----------------------------|
| Zinc sulfate<br>7446-19-7 | 1000 lb                     | X                      |                           | X                          |

#### CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

| Chemical Name | Hazardous Substances RQs | Extremely Hazardous Substances | RQ |
|---------------|--------------------------|--------------------------------|----|
|---------------|--------------------------|--------------------------------|----|



|                           |         | RQs |   |
|---------------------------|---------|-----|---|
| Zinc sulfate<br>7446-19-7 | 1000 lb |     | RQ 1000 lb final RQ<br>RQ 454 kg final RQ |

**US State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals.

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

| Chemical Name  | New Jersey | Massachusetts | Pennsylvania | Rhode Island | Illinois |
|--|------------|---------------|--------------|--------------|----------|
| Limestone<br>1317-65-3                                 | X          | X             | X            |              |          |
| Silica, amorphous, precipitated and gel<br>112926-00-8 | X          | X             | X            |              |          |
| Vitamin B12<br>68-19-9                                 |            |               | X            | X            | X        |

**International Regulations**

| Component                                    | Carcinogen Status | Exposure Limits   |
|--|-------------------|---|
| Limestone<br>1317-65-3 ( 10 - 30 )           |                   | Mexico: TWA= 10 mg/m <sup>3</sup><br>Mexico: STEL= 20 mg/m <sup>3</sup> |
| Manganese(II) sulfate<br>7785-87-7 ( 1 - 5 ) |                   | Mexico: TWA 0.2 mg/m <sup>3</sup>                                       |

**Canada****WHMIS Hazard Class**

Not determined

**16. OTHER INFORMATION**

|             |                             |                       |                          |  |
|-------------|-----------------------------|-----------------------|--------------------------|--|
| <b>NFPA</b> | <b>Health Hazards</b> Yes 2 | <b>Flammability</b> 0 | <b>Instability</b> 0     | <b>Physical and Chemical Hazards -</b> |
| <b>HMIS</b> | <b>Health Hazards</b> 2 *   | <b>Flammability</b> 0 | <b>Physical Hazard</b> 0 | <b>Personal Protection</b>             |
|             |                             |                       |                          | X                                      |

**Chronic Hazard Star Legend** \* = Chronic Health Hazard

**Prepared By** Product Stewardship  
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**Disclaimer**

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**End of Safety Data Sheet**

