

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier:** Dilute Intermediate Selenium Premix (0.45 - 0.9999% Se)  
**Other Identifiers:** Not available  
**Restrictions:** None known  
**Recommended Use:** Animal Feed Additive  
**Details of the supplier of the safety data sheet**  
**Supplier:** Pestell Nutrition  
**Address:** 141 Hamilton Rd  
 New Hamburg, Ontario  
 Canada, N3A 2H1  
**Phone:** 519-662-2877  
**Email:** qa@pestell.com  
**Emergency telephone number (24 hr):** Canada: CANUTEC 1 613-996-6666  
 US: CHEMTREC 1 703-527-3887

## 2. HAZARDS IDENTIFICATION

### Classification

#### OSHA Regulatory Status

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

|  |            |
|--|------------|
| Acute toxicity - Oral                              | Category 4 |
| Skin sensitization                                 | Category 1 |
| Specific target organ toxicity (repeated exposure) | Category 2 |

### Label elements

#### Emergency Overview

#### Warning

#### Hazard statements

Harmful if swallowed  
 May cause an allergic skin reaction  
 May cause damage to organs through prolonged or repeated exposure



**Appearance** Granules powder

**Physical state** Solid

**Odor** No information available

#### Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling  
 Do not eat, drink or smoke when using this product  
 Avoid breathing dust/fume/gas/mist/vapors/spray  
 Contaminated work clothing should not be allowed out of the workplace  
 Wear protective gloves  
 Do not breathe dust/fume/gas/mist/vapors/spray

**Precautionary Statements - Response**

Get medical advice/attention if you feel unwell  
 IF ON SKIN: Wash with plenty of soap and water  
 If skin irritation or rash occurs: Get medical advice/attention  
 Wash contaminated clothing before reuse  
 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell  
 Rinse mouth

**Precautionary Statements - Disposal**

Dispose of contents/ container to an approved landfill

**Hazards not otherwise classified (HNOC)**

**Interactions with Other Chemicals** Irritants Sensitizers Epoxies

**Other hazards**

• Harmful to aquatic life

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Pure substance/mixture

Mixture

| Chemical Name     | CAS No.    | Weight-% | Trade Secret |
|-------------------|------------|----------|--------------|
| Calcium Carbonate | 471-34-1   | 60 - 100 | *            |
| Sodium Selenite   | 10102-18-8 | 1 - 5    | *            |

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

**4. FIRST AID MEASURES****First aid measures**

**General advice:** Immediate medical attention is required.

**Eye contact:** Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Call a physician immediately.

**Inhalation:** Remove to fresh air. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Immediate medical attention is required. If not breathing, give artificial respiration.

**Skin Contact:** Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Immediate medical attention is required.

**Ingestion:** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician immediately.

**Self-protection of the first aider:** Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

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

**Symptoms:** No information available.

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

**Note to physicians:** Treat symptomatically. May cause sensitization of susceptible persons.

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## 5. FIREFIGHTING MEASURES

### Extinguishing media

**Suitable extinguishing media:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use. Dry chemical. Carbon dioxide (CO<sub>2</sub>). Water spray (fog). Alcohol resistant foam.

**Unsuitable extinguishing media:** Caution: Use of water spray when fighting fire may be inefficient.

**Specific hazards arising from the chemical:** In the event of fire and/or explosion do not breathe fumes. May cause sensitization by inhalation and skin contact. Thermal decomposition can lead to release of irritating and toxic gases and vapors.

### Explosion data

**Sensitivity to Mechanical Impact:** None.

**Sensitivity to Static Discharge:** None.

**Protective equipment and precautions for firefighters:** Wear self-contained breathing apparatus and protective suit. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

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## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal precautions:** Use personal protective equipment as required. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas.

**For emergency responders:** Use personal protection recommended in Section 8. Use personal protective equipment as required.

**Environmental Precautions:** Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. See Section 12 for additional ecological information.

### Methods and material for containment and cleaning up

**Methods for containment:** Prevent further leakage or spillage if safe to do so. Cover powder spill with plastic sheet or tarp to minimize spreading. Dike far ahead of liquid spill for later disposal.

**Methods for cleaning up:** Use personal protective equipment as required. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Take up mechanically, placing in appropriate containers for disposal. Avoid creating dust. Clean contaminated surface thoroughly. Soak up with inert absorbent material. Dam up. Pick up and transfer to properly labeled containers.

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## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Advice on safe handling:** Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Use with local exhaust ventilation.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions:** Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers.

**Incompatible materials:** None known based on information supplied.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Control parameters****Exposure Guidelines**

| Component                                  | CAS No.    | ACGIH TLV                     | OSHA PEL   | NIOSH IDLH   |
|--|------------|-------------------------------|--|--|
| Calcium Carbonate<br>471-34-1 ( 60 - 100 ) | 471-34-1   | -                             | -  | TWA: 10 mg/m <sup>3</sup> total dust<br>TWA: 5 mg/m <sup>3</sup> respirable dust           |
| Sodium Selenite<br>10102-18-8 ( 1 - 5 )    | 10102 18 8 | TWA: 0.2 mg/m <sup>3</sup> Se | TWA: 0.2 mg/m <sup>3</sup> Se<br>(vacated) TWA: 0.2 mg/m <sup>3</sup> Se | IDLH: 1 mg/m <sup>3</sup> Se<br>TWA: 0.2 mg/m <sup>3</sup> except Selenium hexafluoride Se |

NIOSH IDLH *Immediately Dangerous to Life or Health*

**Other Information:** 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 Controls:** Showers  
Eyewash stations  
Ventilation systems.

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

**General Hygiene Considerations:** When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Wash hands thoroughly after handling. Keep away from food, drink and animal feeding stuffs.

**Eye/face protection:** Tight sealing safety goggles.

**Skin and body protection:** No special technical protective measures are necessary.

**Respiratory protection:** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Information on basic physical and chemical properties**

|                       |                        |                       |                          |
|-----------------------|------------------------|-----------------------|--------------------------|
| <b>Physical state</b> | Solid                  | <b>Odor</b>           | No information available |
| <b>Appearance</b>     | Granules, powder       | <b>Odor threshold</b> | No information available |
| <b>Color</b>          | Off-White, red, yellow |                       |                          |

| <b><u>Property</u></b>         | <b><u>Values</u></b>     | <b><u>Remarks • Method</u></b> |
|--------------------------------|--------------------------|--------------------------------|
| pH                             | No information available |                                |
| Melting Point / Freezing Point | No information available |                                |
| Boiling point / boiling range  | No information available |                                |
| Flash point                    |                          |                                |
| Evaporation rate               | No information available |                                |
| Flammability (solid, gas)      | No information available |                                |
| Flammability Limit in Air      |                          |                                |
| Upper flammability limit:      | No information available |                                |
| Lower flammability limit:      | No information available |                                |
| Vapor pressure                 | No information available |                                |
| Vapor density                  | No information available |                                |
| Specific Gravity               | No information available |                                |
| Water solubility               | Soluble in water         |                                |

|                                     |                          |
|-------------------------------------|--------------------------|
| <b>Solubility in other solvents</b> |                          |
| <b>Partition coefficient</b>        | No information available |
| <b>Autoignition temperature</b>     | No information available |
| <b>Decomposition temperature</b>    | No information available |
| <b>Kinematic viscosity</b>          | No information available |
| <b>Dynamic viscosity</b>            | No information available |
| <b>Explosive properties</b>         | No information available |
| <b>Oxidizing properties</b>         | No information available |

**Other Information**

|                         |                          |
|-------------------------|--------------------------|
| <b>Softening point</b>  | No information available |
| <b>Molecular weight</b> | No information available |
| <b>VOC Content (%)</b>  | No information available |
| <b>Density</b>          | No information available |
| <b>Bulk density</b>     | No information available |
| <b>Percent Volatile</b> | No information available |

**10. STABILITY AND REACTIVITY****Reactivity**

No data available

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**

None under normal processing.

**Conditions to avoid**

Extremes of temperature and direct sunlight.

**Incompatible materials**

None known based on information supplied.

**Hazardous Decomposition Products**

None known based on information supplied.

**11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure**

|                             |                    |
|-----------------------------|--------------------|
| <b>Product Information:</b> | No data available  |
| <b>Inhalation:</b>          | No data available. |
| <b>Eye contact:</b>         | No data available. |
| <b>Skin Contact:</b>        | No data available. |
| <b>Ingestion:</b>           | No data available. |

**Component Information**

| Chemical Name     | CAS No.    | Oral LD50            | Dermal LD50 | Inhalation LC50 |
|-------------------|------------|----------------------|-------------|-----------------|
| Calcium Carbonate | 471-34-1   | = 6450 mg/kg ( Rat ) | -           | -               |
| Sodium Selenite   | 10102-18-8 | = 7 mg/kg ( Rat )    | -           | -               |

**Information on toxicological effects**

Symptoms: No information available.

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

Sensitization: No information available.

Germ cell mutagenicity: No information available.

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

| Chemical Name   | CAS No.    | ACGIH | IARC    | NTP | OSHA |
|-----------------|------------|-------|---------|-----|------|
| Sodium Selenite | 10102-18-8 |       | Group 3 |     |      |

**ACGIH (American Conference of Governmental Industrial Hygienists)**

A2 - Suspected Human Carcinogen

**IARC (International Agency for Research on Cancer)**

Group 1 - Carcinogenic to Humans

Not classifiable as a human carcinogen

**NTP (National Toxicology Program)**

Known - Known Carcinogen

**OSHA (Occupational Safety and Health Administration of the US Department of Labor)**

X - Present

Reproductive toxicity: No information available.

STOT - single exposure: No information available.

STOT - repeated exposure: No information available.

Chronic toxicity: Prolonged or repeated exposure increases the risk. Possible risk of irreversible effects. Avoid repeated exposure. May cause adverse effects on the bone marrow and blood-forming system. May cause adverse liver effects. Repeated contact may cause allergic reactions in very susceptible persons.

Target Organ Effects: blood, Eyes, kidney, liver, lungs, Respiratory system, Skin, spleen.

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) 318 mg/kg

ATEmix (inhalation-dust/mist) 22.8 mg/l 5068

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

Harmful to aquatic life

0% of the mixture consists of component(s) of unknown hazards to the aquatic environment

| Chemical Name                | CAS No.   | Algae/aquatic plants | Fish                                      | Crustacea |
|------------------------------|-----------|----------------------|---|-----------|
| White mineral oil, petroleum | 8042 47 5 |                      | 10000: 96 h Lepomis macrochirus mg/L LC50 |           |

**Persistence and degradability**

No information available.

**Bioaccumulation**

No information available.

**Mobility**

No information available.

Other adverse effects: No information available

**13. DISPOSAL CONSIDERATIONS****Waste treatment methods**

- Disposal of wastes:** Refer to all federal, state and local regulations prior to disposal of container and unused contents by reuse, recycle or disposal. Disposal should be in accordance with applicable regional, national and local laws and regulations. Avoid runoff to waterways and sewers. Recover or recycle if possible. Send to a licensed recycler, reclaimer or incinerator.
- Disposal methods:** Do not reuse container.

**14. TRANSPORT INFORMATION**

- Note:** Store in a closed container. Keep container upright.
- DOT** Not regulated
- IATA** Not regulated
- IMDG** Not regulated
- TDG** Not regulated

**15. REGULATORY INFORMATION****International Inventories**

- DSL** Complies
- NDSL** Complies
- EINECS/ELINCS:** Complies
- ENCS:** Not Determined
- IECSC:** Complies
- KECL:** Complies
- PICCS:** Complies
- AICS:** Complies

**Legend:**

- TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
- DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List
- EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- ENCS** - Japan Existing and New Chemical Substances
- IECSC** - China Inventory of Existing Chemical Substances
- KECL** - Korean Existing and Evaluated Chemical Substances
- PICCS** - Philippines Inventory of Chemicals and Chemical Substances
- AICS** - Australian Inventory of Chemical Substances

**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.    | SARA 313 - Threshold Values % |
|-----------------|------------|-------------------------------|
| Sodium Selenite | 10102-18-8 | 1.0                           |

**SARA 311/312 Hazard Categories**

- Acute health hazard** Yes
- Chronic Health Hazard** Yes
- Fire hazard** No
- Sudden release of pressure hazard** No
- Reactive Hazard** 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)

Selenium Premix 0.9999% (SDS)

| Chemical Name   | CAS No.    | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|-----------------|------------|-----------------------------|------------------------|---------------------------|----------------------------|
| Sodium Selenite | 10102-18-8 | 100 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   | CAS No.    | Hazardous Substances | CERCLA/SARA RQ | Reportable Quantity (RQ)                  |
|-----------------|------------|----------------------|----------------|---|
|                 |            | <b>RQs</b>           |                |   |
| Sodium Selenite | 10102-18-8 | 100 lb               | 100 lb         | RQ 100 lb final RQ<br>RQ 45.4 kg final RQ |

**FIFRA**

Not applicable

**US State Regulations**

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

No information available

| Chemical Name   | CAS No.    | New Jersey | Massachusetts | Pennsylvania |
|-----------------|------------|------------|---------------|--------------|
| Sodium Selenite | 10102-18-8 | X          | X             | X            |

**16. OTHER INFORMATION**

**NFPA**

Health hazards 2      Flammability 0      Instability 0      Physical & Chemical Properties 0

**HMIS**

Health hazards \*2      Flammability 0      Physical hazards 0      Personal protection X

**Document Review**

Revision Number: 1

Revision Note: No information available

**Key or legend to abbreviations and acronyms used in the safety data sheet:**

Bioconcentration factor (BCF)  
International Air Transport Association (IATA)  
Globally Harmonized System (GHS)  
International Maritime Dangerous Goods (IMDG)

**Disclaimer**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Pestell Nutrition and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.

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