

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Selenium Premix 3 %

**Other means of identification:** Not available

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

**Recommended use:** Animal Feed Additive.

**Uses advised against:** Not intended for human consumption.

**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**

Acute toxicity - Oral	Category 3
Carcinogenicity	Category 1
Specific target organ toxicity (repeated exposure)	Category 2

**Label elements**

**DANGER**

**Hazard statements**

Toxic 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**

Obtain special instructions before use  
Do not handle until all safety precautions have been read and understood  
Use personal protective equipment as required  
Wash face, hands and any exposed skin thoroughly after handling  
Do not eat, drink or smoke when using this product  
Do not breathe dust/fume/gas/mist/vapors/spray

**Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention  
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

**Skin**

Wash with plenty of water and soap.  
If skin irritation or rash occurs, get medical attention/advice.  
Take of contaminated clothing and was before reuse.

**Ingestion**

Immediately call a poison center or doctore if swallowed.  
Rinse mouth.

**Precautionary Statements - Storage**

Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Other Information**

Harmful to aquatic life with long lasting effects Toxic to aquatic life

**Unknown acute toxicity** 0 % of the mixture consists of ingredient(s) of unknown toxicity  
0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity  
0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity  
0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)  
0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)  
0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

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**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Pure substance/mixture                      Mixture

Chemical Name	CAS No	Weight-%	Trade Secret
Limestone (Calcium carbonate)	1317-65-3	90 - 100	*
Sodium selenite	10102-18-8	0 - 10	*

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## 4. FIRST AID MEASURES

<b>General advice:</b>	If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Show this safety sheet to physician in attendance.
<b>Eye contact:</b>	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. If symptoms persist, call a physician.
<b>Inhalation:</b>	Remove to fresh air. Call a physician. If breathing is irregular or stopped, administer artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation.
<b>Skin Contact:</b>	Consult a physician if necessary. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
<b>Ingestion:</b>	Rinse mouth. Drink plenty of water. If symptoms persist, call a physician. Do NOT induce vomiting.

**Self-protection of the first aider:** Use personal protective equipment as required.

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

**Symptoms:** Itching, rashes, hives.

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

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

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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.

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

**Specific hazards arising from the chemical:** Product is or contains a sensitizer. May cause sensitization by skin contact.

### **Explosion data**

**Sensitivity to Mechanical Impact:** None.

**Sensitivity to Static Discharge:** None.

**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.

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## 6. ACCIDENTAL RELEASE MEASURES

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

**Personal precautions:** Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

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

**Environmental precautions:** Prevent entry into waterways, sewers, basements or confined areas. 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.

**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 appropriately labelled containers for disposal. Avoid creating dust. Clean contaminated surface thoroughly.

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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.

### 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.

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

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Exposure Limits

Chemical Name	Alberta	British Columbia	Ontario TWA	Quebec
Limestone 1317-65-3	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> TWA: 3 mg/m <sup>3</sup> STEL: 20 mg/m <sup>3</sup>		TWA: 10 mg/m <sup>3</sup>
Sodium Selenite 10102-18-8	TWA: 0.2 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.2 mg/m <sup>3</sup>	TWA: 0.2 mg/m <sup>3</sup>

**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:** Handle in accordance with good industrial hygiene and safety practice. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

<b>Eye/face protection:</b>	Wear safety glasses with side shields (or goggles).
<b>Hand protection:</b>	Wear suitable gloves.
<b>Skin and body protection</b>	Wear suitable protective clothing.
<b>Respiratory protection:</b>	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

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## 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		

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

#### Product Information:

**Inhalation:** No data available.

**Eye contact:** No data available.

**Skin Contact:** May cause sensitization by skin contact. Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components).

**Ingestion:** Specific test data for the substance or mixture is not available. Toxic if swallowed. (based on components).

### Information on toxicological effects

**Symptoms:** Itching, rashes, hives.

#### Acute toxicity

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

**ATEmix (oral)** 77.80  
mg/kg

**ATEmix (inhalation-dust/mist)** 5.57  
mg/l

**Unknown acute toxicity** 0 % of the mixture consists of ingredient(s) of unknown toxicity

0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

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#### Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium Selenite 10102-18-8	= 7 mg/kg ( Rat )	-	-

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

**Skin corrosion/irritation** No information available.  
**Serious eye damage/eye irritation** No information available.  
**Sensitization:** May cause sensitization by skin contact.  
**Germ cell mutagenicity:** No information available.  
**Carcinogenicity:** No information available.

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

Chemical Name	ACGIH	IARC	NTP	OSHA
Sodium Selenite 10102-18-8	-	Group 3	-	-

**Legend**

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

**Reproductive toxicity:** No information available.  
**STOT - single exposure:** No information available.  
**STOT - repeated exposure:** May cause damage to organs.

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

**Aspiration hazard:** No information available.

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## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

No information available

**Persistence and degradability**

No information available.

**Bioaccumulation**

No information available.

**Mobility**

No information available.

**Other adverse effects:**

No information available

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## 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.

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## 14. TRANSPORT INFORMATION

### TDG

UN/ID no	UN3283
Proper shipping name	SELENIUM COMPOUND, SOLID, N.O.S.
Hazard Class	6.1
Packing Group	III
Description	UN3283, SELENIUM COMPOUND, SOLID, N.O.S. (Sodium Selenite), 6.1, III

### DOT

UN/ID no	UN3283
Proper shipping name	SELENIUM COMPOUND, SOLID, N.O.S. (Sodium Selenite)
Hazard Class	6.1
Packing Group	III
Reportable Quantity (RQ)	(Sodium Selenite: RQ (kg)= 45.40)
Special Provisions	IB8, IP3, T1, TP33
Description	UN3283, SELENIUM COMPOUND, SOLID, N.O.S. (Sodium Selenite), 6.1, III
Emergency Response Guide Number	151

### IATA

UN/ID no	UN3283
Proper shipping name	SELENIUM COMPOUND, SOLID, N.O.S. (Sodium Selenite)
Hazard Class	6.1
Packing Group	III
ERG Code	6L
Special Provisions	A3, A5
Description	UN3283, SELENIUM COMPOUND, SOLID, N.O.S. (Sodium Selenite), 6.1, III

### IMDG

UN/ID no	UN3283
Proper shipping name	SELENIUM COMPOUND, SOLID, N.O.S. (Sodium Selenite)
Hazard Class	6.1
Packing Group	III
EmS-No	F-A, S-A
Special Provisions	223, 274
Description	UN3283, SELENIUM COMPOUND, SOLID, N.O.S. (Sodium Selenite), 6.1, III

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## 15. REGULATORY INFORMATION

### International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer	Not applicable
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The Stockholm Convention on Persistent Organic Pollutants	Not applicable
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The Rotterdam Convention	Not applicable
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### International Regulations

<b>TSCA:</b>	Complies
<b>DSL/NDL:</b>	Not Determined
<b>EINECS/ELINCS:</b>	Complies
<b>ENCS:</b>	Not Determined
<b>IECSC:</b>	Complies
<b>KECL:</b>	Complies
<b>PICCS:</b>	Complies
<b>AICS:</b>	Complies

### Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDL** - 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

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## 16. OTHER INFORMATION

<u><b>NFPA</b></u>	<b>Health hazards</b> 2	<b>Flammability</b> 0	<b>Instability</b> 0	<b>Physical &amp; Chemical Properties</b> 0
<u><b>HMIS</b></u>	<b>Health hazards</b> *2	<b>Flammability</b> 0	<b>Physical hazards</b> 0	<b>Personal protection</b> X

### **Legend: Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

### 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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