Safety Data Sheet Selenium Prill

UPDATED: 18/08/2025

1. IDENTIFICATION AND SUPPLIER

1.1) Product Identifier

Product Name:	Agsel
Synonym(s):	Selenium Prill

1.2) Uses

Intended Use:	For Fertiliser

1.3) Supplier Details

Supplier Name:	Dickie Direct Ltd
Supplier Address:	25 Railway Rd, Whakatu, Hastings 4172
Supplier Contact:	0800 4 DICKIE (4 34254)
Supplier Website:	www.dickiedirect.co.nz

1.4) Emergency Contact Numbers

National Poisons Information Centre:	0800 POISON (764 766)
Emergency (In Storage):	0800 CHEMCALL (243 622)
Emergency (In Transit):	111 (Advise of Fire, Ambulance or Police)

2. HAZARDS IDENTIFICATION

2.1) Classification of Substance

Substance is considered a Hazardous Substance according to the criteria of the New Zealand Hazardous Substances New Organisms legislation. Not regulated for transport of Dangerous Goods.

2.2) Hazard Classification

GHS/ Classifications: **6.lC (Oral), 6.4A, 6.6B, 6.9B, 9.1B, 9.2B, 9.3B**

Signal Word: Danger

Hazard Statements:

H301-Toxic if swallowed.

H319- Causes serious eye irritation

H341-Suspected of causing genetic defects

H371- May cause damage to organs
H411- Toxic to aquatic life with long lasting effects.
H422- Toxic to the soil environment.
H432- Toxic to terrestrial vertebrates

Prevention:

P201- Obtain special Instructions before use.
P202 - Do not handle until all safety precautions have been read and understood
P260- Do not breathe dust
P264 - Wash contaminated areas thoroughly after handling
P270 - Do not eat, drink or smoke while using this product
P273- Avoid release to the environment.
P280- Wear protective gloves
P281- Use personal protective equipment as required

Response:

P321- Wash with plenty of soap and water and see first aid instruction on label.
P330- Rinse mouth.
P331- Do NOT induce vomiting. P391- Collect spillage.
P301+ P310- IF SWALLOWED: Immediately call a POISON CENTER or
doctor/physician.
P308 + P313- IF exposed or concerned: Get medical advice/ attention. P309 + P311- IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.
P337 + P313- If eye irritation persists: Get medical advice/attention.
P305 + P351+ P338- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

3. COMPOSITION INFORMATION

3.1) Substances and Mixtures

Substance Name	CAS Number	Concentration Range
limestone Granules	1317-65-3	> 50.0%
Barium Selenate	7787-41-9	1.0-5.0%
GX3 Premix 2170A (Mixture)	112-34-5	1.0-5.0%
Sodium Selenate	13410-01-0	1.0-5.0%
Non-hazardous substances		0.0-10.0%

4. FIRST AID MEASURES

Eyes: Chemically this product causes serious irritation to the eye and due to its physical form mechanical irritation is also possible.
Immediately and carefully rinse eyes out with water for at least ten minutes to remove dry particles from the eye. If irritation persists or symptoms worsen seek medical advice.

Inhalation: Inhalation of this product may cause mechanical and chemical irritation to the throat, oesophagus and lungs.
Long term exposure to dust inhalation or significant short term exposure may progress to respiratory diseases.
Remove victim to fresh air and sit in a position comfortable for breathing. Monitor vital signs and if shortness of breath or unconsciousness occurs then call an ambulance immediately.

Skin: Skin contact may cause an allergic skin reaction in some people.
Wash exposed area thoroughly with soap and warm water to remove product residue. If a rash or pain develops seek medical advice.

Ingestion: This product is considered to be toxic through ingestion, although specific symptoms are unknown.
Ingestion of this product may cause organ damage which can be serious and irreversible. If product is ingested call a poison centre or hospital immediately. Symptoms are not known but may include any of the following: change in breathing and/or heart rate, pain, discomfort, vomiting and nausea.

Wash mouth out to remove residual product and give plenty of water to drink. Do NOT induce vomiting. Seek immediate medical advice while keeping a close eye on changes to victim's health and any possible deterioration.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing Media
Water, foam, extinguishing powder, carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Unknown

5.3 Advice for Firefighters
Standard issue fire-fighting equipment should be worn at all times. Take all reasonable measures to contain water run-off and prevent it from entering drains, waterways and natural water reserves.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS. Ventilate area where possible.

6.2 Environmental precautions
Prevent product from entering drains and waterways.

6.3 Methods of cleaning
Clean up spill mechanically while wearing appropriate protective equipment to avoid exposure and place in container for disposal according to the New Zealand Hazardous Substances (Disposal) Regulations 2001 or other relevant local regulations.

6.4 Reference to other Sections
See Sections 8 and 13 for exposure controls and disposal.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good

personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

7.2 Conditions for safe storage, including any incompatibilities

Store tightly sealed in a cool, dry, well ventilated area, removed from incompatible substances and foodstuffs. Avoid direct sunlight. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Check regularly for leaks or spills.

7.3 Specific end use(s)

Intended for use as a fertiliser.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Substance		Time Weighted Averages (TWA*)		Short Term Exposure Limit (STEL)	
	Cas #	ppm	mg/m^3	ppm	mg/m^3
PVP Solution 98%	107-98-2	100	369	150	553
Kaolin	1332-58-7	10 mg/m3; and 2 mg/m3	N/A	N/A	N/A

* Workplace Exposure Standard Time Weighted Averages (TWA) are derived on an eight-hour work day and 40-hour work week. When shifts are longer than this, either over a day or a week, the WES-TWA needs to be adjusted to account for the longer period of exposure and shorter recovery time.

Other ingredients of this product do not have an exposure limit set in the *Workplace Exposure Standards and Biological Exposure Indices* published by Ministry of Business, Innovation and Employment NZ.

8.2 Exposure controls

Engineering controls
Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical extraction ventilation is recommended. Maintain dust levels below the recommended exposure standard.

PPE
Eye / Face
Wear dust-proof goggles.
Hands
Wear PVC or rubber gloves.
Body

When using large quantities or where heavy contamination is likely, wear coveralls.
Respiratory
At high dust levels, wear a Class P1 (Particulate) respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	NOT AVAILABLE
Odour:	NOT AVAILABLE
Flammability:	NOT AVAILABLE
Flash point	NOT AVAILABLE
Boiling point	NOT AVAILABLE
Melting point	NOT AVAILABLE
Evaporation rate	NOT AVAILABLE
pH	NOT AVAILABLE
Vapour density	NOT AVAILABLE
Specific gravity	NOT AVAILABLE
Vapour pressure	NOT AVAILABLE
Upper explosion limit	NOT AVAILABLE
Lower explosion limit	NOT AVAILABLE
Partition coefficient	NOT AVAILABLE
Autoignition temperature	NOT AVAILABLE
Decomposition temperature	NOT AVAILABLE
Viscosity	NOT AVAILABLE
Explosive properties	NOT AVAILABLE
Oxidising properties	NOT AVAILABLE
Odour threshold	NOT AVAILABLE

9.2 Other information

Density	NOT AVAILABLE
% Volatiles	NOT AVAILABLE

10. STABILITY AND REACTIVITY

10.1) Chemical stability
Stable under recommended conditions of storage.

10.2) Possibility of hazardous reactions
Unknown

10.3) Conditions to avoid
Avoid extreme temperatures and exposure to light

10.4) Incompatible materials
Unknown

10.5) Hazardous decomposition products
Unknown

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity :
According to available data on the components and according to classification criteria for mixtures, product is considered to be toxic.

Aspiration hazard :
According to available data on the components and according to classification criteria for mixtures, product is not expected to pose an aspiration hazard.

Respiratory irritation:
According to available data on the components and according to classification criteria for mixtures, product is not expected to cause respiratory irritation.

Skin corrosion/irritation:
According to available data on the components and according to classification criteria for mixtures, product is not expected to cause skin corrosion/irritation.

Serious eye damage/irritation:
According to available data on the components and according to classification criteria for mixtures, product is expected to cause serious eye damage/irritation.

Respiratory or skin sensitisation:
According to available data on the components and according to classification criteria for mixtures, product is not expected to pose a respiratory or skin sensitisation hazard.

Germ cell mutagenicity:
According to available data on the components and according to classification criteria for mixtures, product is considered to be genotoxic.

Carcinogenicity:
According to available data on the components and according to classification criteria for mixtures, product is not considered to be carcinogenic.

Reproductive toxicity:
According to available data on the components and according to classification criteria for mixtures, product is not considered to be teratogenic and is not expected to affect fertility.

Specific organ toxicity:
According to available data on the components and according to classification criteria for mixtures, product is classified as specific target organ toxicant.

Narcotic effects:
According to available data on the components and according to classification criteria for mixtures, product is not expected to cause a narcotic effect hazard.

Health effects;

Eye
Chemically this product causes serious irritation to the eye and due to its physical form mechanical irritation is also possible.

Inhalation
Inhalation of this product may cause mechanical and chemical irritation to the throat, oesophagus and lungs. Long term exposure to dust inhalation or significant short term exposure may progress to respiratory diseases.

Skin
Skin contact may cause an allergic skin reaction in some people.

Ingestion
This product is considered to be toxic through ingestion, although specific symptoms are unknown.
Ingestion of this product may cause organ damage which can be serious and irreversible. If product is ingested call a poison centre or hospital immediately. Symptoms are not known but may include any of the following: change in breathing and/or heart rate, pain, discomfort, vomiting and nausea.

Toxicity data
Calculated LOSO: 99 mg/ kg (oral)

12. ECOLOGICAL INFORMATION

12.1) Ecotoxicity
Product has been classified 9.18 -Toxic to aquatic life with long lasting effects. For this reason, it is important that the product be disposed of in an appropriate manner and not released into the environment in its current state.
Calculated LCSO: 29.85 mg/L

13. DISPOSAL INFORMATION

13.1 Waste treatment methods

Product Disposal:
Product must be disposed of in accordance with the Hazardous Substances (Disposal) Notice 2007 and the act or other relevant local regulations. Product

should not be disposed of in waterways, sewers, drains or the like. Product must be sufficiently diluted if being disposed of by discharge into the environment so that the discharged product concentration no longer triggers any environmental hazards. Seek specific advice on components before disposing of by incineration.

Packaging (Bulk Bag) Disposal:
Packaging should be washed and recycled if possible or thoroughly cleaned before being disposed of in accordance with the Hazardous Substances (Disposal) Notice 2007 and the act or other relevant local regulations.

14. TRANSPORT INFORMATION

UN Number:	3077
Proper Shipping Name:	Environmentally Hazardous Substance, Solid N.O.S
Hazard Class:	Class 9
Packing Group:	Group III - Substances presenting low danger
Domestic Transport:	Classified as dangerous goods for transport under NZ Standard 5433:2007 Transport of Dangerous Goods on Land.

15. REGULATORY INFORMATION

15.1) Regulatory Publications Referencing Selenium Prill
New Zealand Inventory of Chemicals
New Zealand HSNO Act

16. OTHER INFORMATION

Additional information

RESPIRATORS: In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

EXPOSURE STANDARD: Exposure standards are established on the premise of an 8 hour work period of normal intensity, under normal climatic conditions and where a 16 hour break between shifts exists to enable the body to eliminate absorbed contaminants. In the following circumstances, exposure standards must be reduced: Strenuous work conditions; hot, humid climates; high altitude conditions; extended shifts (which increase the exposure period and shorten the period of recuperation).

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES: The recommendation for protective equipment contained within this report is provided as a guide only.

Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

HEALTH EFFECTS FROM EXPOSURE: It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a ChemAlert report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.