

Safety Data Sheet

SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND SUPPLIER

Product Name:	Agssel Extra Selenium Prill Bulk
Product Code:	UBPA012000
Recommended Use:	1% Selenium prills for topdressing pastures to correct and prevent selenium deficiency in grazing animals. Only for use in manufacture; not for retail sale.
New Zealand Manufacturer/Distributor: Address:	DSM Nutritional Products Ltd 38-44 Bruce McLaren Road Henderson, Waitakere 0612 Auckland
Telephone Number:	+64 9 835 0835
24 Hour Emergency Contact (NZ Only): Emergency Contact (Worldwide):	0800 CHEMCALL (0800 243 622) +64 3 353 0199
Email:	orders.dnnpnz@dsm.com
Website:	www.dsmnutritionalproducts.com

SECTION 2: HAZARD IDENTIFICATION

Statement of Hazardous Nature:	Classified as hazardous according to the criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.
HSNO Classifications:	6.1D (Oral), 6.1D (Inhalation), 6.4A, 6.6B, 6.9B, 9.1B, 9.2B, 9.3B
Signal Word:	Warning
Hazard Statements:	H302 – Harmful if swallowed H332 – Harmful if inhaled 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
Precautionary Statements:	Prevention: P102 – Keep out of reach of children P103 – Read label before use P104 – Read Safety Data Sheet 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 P271 – Use only outdoors or in a well-ventilated area P273 – Avoid release into the environment*

P280 – Wear protective gloves
P281 – Use personal protective equipment as required

Response:

P101 – If medical advice is needed, have product container or label at hand
P330 – Rinse mouth
P331 – Do NOT induce vomiting
P391 – Collect spillage
P301+P312 – IF SWALLOWED: Call a poison centre or doctor if you feel unwell
P304 + P340 – If inhaled: Remove to fresh air and keep at rest in a position comfortable for breathing
P312 – Call a poison centre or doctor if you feel unwell
P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 – If eye irritation persists: Get medical advice

Storage:

P405 – Store locked up

Disposal:

Refer to section 13 of this document or the product label for disposal instructions.

* Does not apply when used as prescribed on package

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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)	n/a	1.0 – 5.0%
Sodium Selenate	13410-01-0	1.0 – 5.0%
PVP Solution 98%	107-98-2	0.1 – 1.0%
Non-hazardous substances		0.0 – 10.0%

SECTION 4: FIRST AID MEASURES

SYMPTOMS

Eye Contact:

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

Skin Contact:

Skin contact cause mild skin irritation and an allergic skin reaction in some people.

Inhalation:

This product is harmful if inhaled, although specific symptoms are unknown. Possible symptoms include dizziness, nausea, confusion and vomiting. Inhalation of this product may also cause mechanical irritation to the throat, oesophagus and lungs. Long term exposure to dust inhalation or significant short term exposure may progress to respiratory diseases.

Product may damage lungs.

Ingestion:

This product is considered to be toxic through ingestion, although specific symptoms are unknown. Possible symptoms include stomach pains, vomiting, nausea and general discomfort. Ingestion of this product may cause damage to internal organs and genetic defects.

TREATMENT

Eye Contact:

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.

Skin Contact:

Wash exposed area thoroughly with soap and warm water to remove product residue. If a rash or pain develops seek medical advice.

Inhalation:

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. Seek medical advice.

Ingestion:

Wash mouth out to remove residual product and give plenty of water to drink. Do NOT induce vomiting. Seek medical advice immediately.

SECTION 5: FIRE FIGHTING MEASURES

Suitable extinguishing media:

Water, foam, extinguishing powder, carbon dioxide.

Unsuitable extinguishing media:

No unsuitable extinguishing media known.

Hazards from combustion products:

Unknown.

Instructions/Precautions for fire fighters:

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.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Protective Clothing Requirements:

When dealing with a spill wear appropriate protective equipment including safety glasses, gloves, apron and avoid unnecessary skin/body exposure.

Environmental Precautions:

In the event of a spill efforts should be made to contain the product as soon as possible. Prevent product from entering drains or waterways. Product has been classified **9.1B – Toxic to aquatic life with long lasting effects, 9.2B – Toxic to the soil environment and 9.3B – Toxic to terrestrial vertebrates**. Appropriate authorities should be alerted immediately if product is accidentally released into the environment.

Method for Containing Spill:

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.

Other Information:

Observe basic hygiene standards when dealing with a spillage: do not eat, drink or smoke after coming into contact with product. Provide adequate ventilation.

SECTION 7: HANDLING AND STORAGE

Storage Instructions:	Product should be stored at ambient temperature. Exposure to direct sunlight and moisture should be avoided.
Handling Instructions:	Handle in a way that minimises risk of exposure. Always wear protective gloves, safety mask, protective clothing and safety glasses where there is a risk of accidental contact.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:	Workplace Exposure Limits outlined in MBIE's <i>Workplace Exposure Standards and Biological Exposure Indices</i> . Substance: Calcium Carbonate TWA- ppm: mg/m³: 10 STEL:-ppm: mg/m³:
Engineering Controls:	Provide an eyewash station and a safety shower.
Personal Protection:	Hand: Wear protective gloves made of butyl rubber, nitrile or latex. Eyes: Safety glasses/goggles should be worn to protect the eyes from both chemical and mechanical irritation. Skin and body: Wear protective clothing that minimises skin exposure and contamination of personal clothing. Respiratory: A respirator must be worn at all times to protect the oesophagus and lungs.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Green chalky granules
Odour:	Dry and chalky
pH:	Not applicable
Solubility:	Insoluble in water

SECTION 10: STABILITY AND REACTIVITY

Stability of Product:	Stable under normal conditions of use.
Conditions to avoid:	Avoid extreme temperatures and exposure to light.
Incompatible Materials:	Avoid contact with mineral acids, oxidising agents, and reducing agents.
Hazardous Decomposition:	Product may decompose to release selenium oxide, selenium and other oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

Health effects:	
Eyes:	Chemically this product causes serious irritation to the eye and due to its physical form mechanical irritation is also possible.

Skin:	Skin contact causes mild skin irritation and an allergic skin reaction in some people.
Inhalation:	This product is harmful if inhaled, although specific symptoms are unknown. Possible symptoms include dizziness, nausea, confusion and vomiting. Inhalation of this product may also cause mechanical irritation to the throat, oesophagus and lungs. Long term exposure to dust inhalation or significant short term exposure may progress to respiratory diseases. Product may damage lungs.
Ingestion:	This product is considered to be toxic through ingestion, although specific symptoms are unknown. Possible symptoms include stomach pains, vomiting, nausea and general discomfort. Ingestion of this product may cause damage to internal organs and genetic defects.

Toxicological Data: This product has been classified **6.1D (Oral) – Harmful if swallowed** and **6.1D (Inhalation) – Harmful if inhaled**. This product is only known to be toxic through ingestion and ingestion but other symptoms are possible through alternative routes of exposure.

Calculated LD50: 403.63 mg/kg (Oral)
Calculated LC50: 3.91 mg/L (Inhalation)

SECTION 12: ECOLOGICAL INFORMATION

Eco-Toxicological Data: Product has been classified **9.1B – Toxic to aquatic life with long lasting effects, 9.2B – Toxic to the soil environment** and **9.3B – Toxic to terrestrial vertebrates**. 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.

Component LC50 Data:

Component Name	LC50 Value (mg/L)
Barium Selenate	1.000
Sodium Selenate	0.083

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal Instructions for Product:	Product must be disposed of in accordance with the Hazardous Substances (Disposal) Regulations 2001 or other relevant local regulations. Product has been classified 9.1B – Toxic to aquatic life with long lasting effects, 9.2B – Toxic to the soil environment and 9.3B – Toxic to terrestrial vertebrates so 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.
Disposal Instructions for Packaging:	Packaging should be washed and recycled if possible or thoroughly cleaned before being disposed of in accordance with the Hazardous Substances (Disposal) Regulations 2001 or other relevant local regulations.

SECTION 14: TRANSPORT INFORMATION

Domestic Transport:	Classified as dangerous goods for transport under NZ Standard 5433:2007 Transport of Dangerous Goods on Land.
Air Transport:	Classified as dangerous goods for transport under International Civil Aviation Organisation and International Air Transport Association regulations
Sea Transport:	Classified as dangerous goods for transport under International Maritime Organisation regulations
Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Barium Selenate, Sodium Selenate)
UN Number:	3077
DG Class:	9
Packing group:	III

SECTION 15: REGULATORY INFORMATION

ERMA Approval Number:	HSR002571
Title of Group Standard Assigned:	Fertilisers (Subsidiary Hazard) Group Standard 2006
Other Information:	For specific advice on controls/conditions/regulations of the group standard beyond what is contained in this Safety Data Sheet refer to www.epa.govt.nz

SECTION 16: OTHER INFORMATION

Abbreviations:	
STEL	Short Term Exposure Limit
TWA	Time Weighted Average
LD50	Lethal Dose 50%
LC50	Lethal Concentration 50%
Disclaimer:	Based on composition information supplied by Unitech Industries Ltd. Information is based on current knowledge at the time of preparation which is thought to be accurate and correct. This document is not intended to imply a guarantee as to any specific properties of the product. When in any doubt about the safe use of a chemical always seek expert technical advice to guarantee health and safety of employees and equipment. Do not use product in conditions that contradict the advice given in this document.
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End of Safety Data Sheet