

**SECTION 1: Substance identification and supplier**

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**Product name:**

Dairy Cow Lugols iodine and Selenium

**Product code:**

LUGS

**Recommended use:**

A liquid iodine and selenium supplement for dairy cows

**Company I.D:**

Livestock Supplies NZ Ltd  
6 Oreti Street  
P.O. Box 123  
Gore 9740

**Contact number:**

(0800) 574-673

**Emergency contact:**

NZ National Poisons Centre (24 Hours)  
0800 764 766 (0800 POISON)

**Transport Emergency:**

111 - Advise operator what service required - Fire, Ambulance, Police



## SECTION 2: Hazard identification

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**Signal Word:**

Danger

**GHS Classification:**

Acute Toxicity (Oral) – Category 4  
Skin Corrosion/Irritation – Category 2  
Serious Eye Damage/Irritation – Category 2  
Skin Sensitisation – Category 1  
Germ Cell Mutagenicity – Category 2  
Specific Target Organ Toxicity – Category 2 (Repeated)  
Aquatic Toxicity (Chronic) – Category 2  
Ecotoxic to Soil Environment  
Ecotoxic to Terrestrial Vertebrates

**HSNO Classification:**

6.1D (Oral, Inhalation), 6.3A, 6.4A, 6.5B, 6.6B, 6.9B (repeated), 9.1C, 9.2B, 9.3C

**Hazard Statements:**

H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye damage.
H332	Harmful if inhaled.
H341	Suspected of causing genetic defects.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects
H423	Harmful to the soil environment
H433	Harmful to terrestrial vertebrates

**Prevention Statements:**

- P102 Keep out of reach of children.
- P103 Read label before use.
- 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 face and hands well with soap and water after handling.
- P270 Do not eat, drink or smoke when using this product.
- P271 Use only outdoors or in a well ventilated area
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P273 Avoid release to the environment.
- P280 Wear protective gloves, clothing and eye face protection.

**Response Statements:**

- P101 If medical advice is needed, have product container or label at hand.
- P301+P312 IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell.
- P302+P352 IF ON SKIN: Wash with plenty of soap and water
- P304+P341 IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308+P313 IF exposed or concerned. Get medical advice/attention.
- P312 Call a POISON CENTER or doctor/physician if you feel unwell
- P321 Specific treatment (see First Aid instruction on this label).
- P330 Rinse mouth
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention
- P337+P313 If eye irritation persists: Get medical advice/attention
- P362 Take off contaminated clothing and wash before re-use.

**Storage Statements:**

- P405 Store locked up.

**Disposal Statements:**

- P501 Disposal of contents/container should be made in accordance with applicable regional, national and local laws and regulations.



## SECTION 3: Composition information

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<b>Ingredient:</b>	<b>CAS Number:</b>	<b>Content (%w/w):</b>
Iodine Crystal	7553-56-2	1.00%
Potassium Iodide	7681-11-0	2.00%
Sodium Selenate	13410-01-0	1.20%
Other ingredients deemed non hazardous	-	To 100%

## SECTION 4: First aid measures

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### **First Aid Measures:**

Consult the National Poisons Centre on 0800 POISON (0800 764 766) or a doctor immediately in every case of suspected poisoning.

### **Inhalation:**

Remove patient to fresh air. Lay down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Seek medical assistance immediately.

### **Ingestion:**

Never give anything by mouth to an unconscious person. If swallowed DO NOT induce vomiting. For advice, contact the National Poisons Centre on 0800 POISON (0800 764 766). Seek medical assistance immediately.

### **Skin:**

Remove contaminated clothing and wash affected area thoroughly with soap and water. If a large area is affected seek medical assistance.

### **Eye:**

Flush with plenty of water for 15 minutes holding eyelids open if necessary. Remove contact lenses if easy to do so and continue rinsing. Seek medical assistance immediately.

### **Advice to Doctor:**

No specific antidote. Treat symptomatically. If vomiting is induced, suggest endotracheal and/or oesophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach.



## SECTION 5: Fire fighting measures

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### **Extinguishing Media:**

Use water spray or fog.

### **Combustion Products:**

Decomposes on heating emitting toxic fumes, including those of oxides of copper, cobalt, manganese, zinc, selenium, iodine and sulphur.

### **Protective Equipment:**

Breathing apparatus plus full body protective clothing.

## SECTION 6: Accidental release measures

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### **Spills and Disposal:**

Wear appropriate protective clothing. Exclude non-essential people from the area. Contain spill by blocking drains, scoop up bulk product for reuse if possible, wash area with water to remove remaining powder and collect washings, place collected powder and washings in a sealable waste container for later disposal. Dispose of waste safely in an approved landfill.

### **Protective Clothing:**

For appropriate personal protective equipment see section 8.

### **Environmental Precaution:**

Prevent from entering drains, waterways or sewers. If spill does enter waterways contact the local authority.

## SECTION 7: Handling and storage

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### **Handling:**

Keep out of reach of children. Avoid contact with skin, eyes and inhalation of dust. Use personal protective equipment as required. Eating, drinking, and smoking in work areas is prohibited.

### **Storage:**

Store in original container tightly closed and in a locked, dry, cool area away from foodstuffs, fertiliser and seed. Store in accordance with NZS 8409; Management of Agrichemicals. This product is subject to signage when stored in quantities of 100 kg or more, either alone or in aggregate with substances of the same hazard classification. Storage of more than 100 kg requires an emergency response plans. For full details refer to NZS 8409.



## SECTION 8: Exposure control/personal protection

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### Workplace exposure standards

The following exposure standards have been established by Worksafe New Zealand.

Material	Type	mg/m <sup>3</sup>
Iodine [7553-56-2]	TWA	1
Selenium [7782-49-2]	TWA	0.1

### Engineering Controls:

Handle in well-ventilated area. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below exposure limits. Avoid inhalation of dust. Keep containers closed when not in use.

### Protective Equipment:

Wear overalls, full face shield (complying with AS/NZS 1336:1997), elbow-length impervious gloves (complying with AS/NZS 2121.2:1998 and rubber boots. Use with adequate ventilation. If inhaled risk exists, wear air-supplied mask meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Wash contaminated clothing and other protective equipment before storage or re-use.

## SECTION 9: Physical and chemical properties

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<b>Appearance:</b>	Dark brown solution	<b>Vapour pressure:</b>	N/A
<b>Odour:</b>	N/A	<b>Vapour density:</b>	N/A
<b>pH:</b>	7	<b>Specific gravity (g/mL @ 25°C):</b>	1.0.24
<b>Melting point:</b>	N/A	<b>Solubility (g/L @ room temp.):</b>	Soluble
<b>Boiling point:</b>	>100°C	<b>Partition coefficient:</b>	N/A
<b>Flash point:</b>	N/A	<b>Auto-ignition temp:</b>	N/A
<b>Flammability:</b>	Non flammable	<b>Decomposition temp:</b>	N/A
<b>Explosive limits:</b>	N/A	<b>Kinematic viscosity:</b>	N/A



## SECTION 10: Stability and reactivity

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**Stability:**

Stable under normal conditions. When stored appropriately this product should show no significant degradation.

**Incompatible materials:**

Avoid contact with strong acids.

**Hazardous decomposition products:**

Metal oxides, oxides of carbon and sulphur.

**Hazardous Polymerisation:**

Hazardous polymerisation is not likely to occur

## SECTION 11: Toxological information

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**Acute toxicity (oral):**

Harmful if swallowed LD<sub>50</sub> 416 mg/kg (calculated)

**Acute toxicity (inhalation):**

Harmful if inhaled LD<sub>50</sub> 4.05 mg/L (calculated)

**Serious eye damage/irritation:**

May cause transient discomfort

**Respiratory/Skin sensitization:**

Risk of sensitisation.

**Germ cell mutagenicity:**

Suspected human mutagen

**Carcinogenicity:**

Not a suspected carcinogen.

**Reproductive toxicity:**

No evidence that exposure will result in any effects to the unborn baby

**STOT repeated exposure:**

Repeat exposure may cause damage to the liver and alimentary system

**Aspiration hazard:**

Not classified.



## SECTION 12: Ecological information

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**Summary:**

No specific data is available for this product.

**Aquatic toxicity:**

This product is harmful to the aquatic environment with long lasting effects

**Bioaccumulation:**

No data available.

**Degradability:**

No data available.

**Soil toxicity:**

This product is harmful in the soil environment based on the mixture rules for the composition of this product.

**Terrestrial vertebrate toxicity:**

This product is ecotoxic to terrestrial vertebrates based on the mixture rules for the composition of this product.

**Terrestrial invertebrate toxicity:**

No data available.

## SECTION 13: Disposal information

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**Product Disposal:** Dispose of product only an approved landfill. Recycle where possible. Do not contaminate bodies of water with chemical or empty container.

**Container disposal:** Triple rinsed 20 litre containers containing the Agrecovery logo on the label, and that are free of all residues and have an intact legible label, may be taken to an Agrecovery collection site for disposal. Otherwise dispose according to local regulations. Do not use container for any other purpose.

## SECTION 14: Transport information

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**Not considered dangerous goods for transport according to NZS 5433, IATA, or IMDG.**

**Transport Information:** It is good practice to separate this product from food, food related materials, animal feedstuffs, seed or fertilisers during transport.





## SECTION 15: Regulatory information

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**NZ EPA Approval Code:**

Animal Nutritional and Animal Care Products Group Standard (2017) – HSR002521

**ACVM:**

Exempt from Registration under the ACVM Act 1997

**NZIoC:**

All components are listed on the New Zealand Inventory of Chemicals

**Trigger quantities for this substance:**

**Certified Handler** - Not required

**Location Certificate** - Not required

**Tracking Trigger Quantities** - Not required

**Signage Trigger Quantities** – 100L (9.1C)

**Emergency Response Plan Trigger Quantities** – 100L (9.1C)



## SECTION 16: Other information

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**SDS Version Number:**

1.1

**SDS Effective Date:**

15 May 2020

**SDS Review Date:**

15 May 2025

**SDS Regulation:**

The content and format of this SDS is in accordance with HSNO Approved Code of Practice (No. HSNOCOP 8-1 09-0-6): Preparation of Safety Data Sheets.

**Abbreviations:**

**ACVM** - Agricultural Compounds and Veterinary Medicines

**AS/NZS** - Joint Australian-New Zealand standard

**CAS** - Chemical Abstracts Service (Registry Number)

**EPA** - Environmental Protection Authority

**ICAO** - International Civil Aviation Organization

**IMDG** - International Maritime Dangerous Goods regulations

**LD50** - Lethal Dose in 50% of the population

**NZIoC** - New Zealand Inventory of Chemicals

**NZS** - New Zealand Standard

**TWA** - Time weighted average

**Disclaimer:**

This document is compiled based on current knowledge as provided by Livestock Supplies Ltd or information obtained from third party sources relating to safety and handling precautions for this product.

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