

Section 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: SELENIUM 5

UN NUMBER:

PRODUCT USE: For the treatment and prevention of selenium responsive diseases in sheep

and cattle.

SUPPLIER: CP Solutions LP

44 Aerodrome Road Mount Maunganui 3116

Telephone: +64 7 575 8853

24 HOUR EMERGENCY CONTACT: 0800 764 766 (National Poisons Centre)

DATE OF PREPERATION: 17th June 2025 Revision 3

Section 2: HAZARDS IDENTIFICATION

STATEMENT OF HAZARDOUS NATURE

This product is HAZARDOUS IN THIS FORM AND AT THIS STRENGTH.

Handle correctly and as directed by this SDS.

HAZARD LABELLING WARNING



HAZARD CLASSIFICATION AND STATEMENTS

HSNO	GHS	Signal Word	GHS Hazard Statement
Slightly harmful to aquatic	Category 3		H413 May cause long-lasting harmful effects to
environment			aquatic life

Prevention Statements

P273: Avoid release to the environment

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

COMPOSITION

NAME	CAS NUMBER	% w/w	
Water (micro-filtered)	7732-18-5	>60	
Sodium Selenate	13410-01-0	<10	
Yellow Dve	1934-21-0	<1	

Section 4: FIRST AID MEASURES

Swallowed: Give 3 to 4 glasses water. DO NOT INDUCE VOMITTING. Seek medical attention if necessary

Skin: Rinse skin with plenty of water.

Eye: Rinse eyes with plenty of water for at least 15 minutes. Seek medical attention if irritation persists.

Inhaled: Not normally a problem.

Workplace Facilities: Eye bath and running water.

Notes for Medical Personnel: Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES

Type of Hazard: Not flammable.

Fire Hazard Properties: Contain runoff from fire control or dilution water - runoff may pollute waterways.

Extinguishing Media & Methods: Use appropriate extinguishing media most suitable for surrounding fire

conditions.

Recommended Protective Clothing: Wear protective clothing and breathing apparatus.



Section 6: ACCIDENTAL RELEASE MEASURES

Emergency Procedures: Personnel involved in the clean up should wear full protective clothing. Increase ventilation. Contain spill if safe to do so. DO NOT let product reach drains or waterways. If product does enter a waterway, advise local and regional authorities.

Methods and Materials for Containment and Clean up. Contain and sweep/shovel up spills with binding material. Transfer to a suitable, labeled container and hold for safe disposal.

Section 7: HANDLING AND STORAGE

Handling: Ensure an eye bath and wash room facilities are available and ready for use

Storage: Keep out of reach of children. Store in the original, labelled container with the lid tightly closed, in a cool dry, well ventilated area, out of direct sunlight.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Workplace Exposure Standards: The lowest harmful dose by oral administration is 88ml/Kg

Ventilation requirements: No specific requirements.

Personal Protective Equipment (PPE): RESPIRATORY: None. EYE/FACE: Chemical goggles. HAND: Impervious gloves. SKIN/BODY: Overalls, safety shoes.









General hygiene: Wash hands thoroughly after handling. Do not eat, drink or smoke while handling the product.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Yellow Liquid

PHYSICAL PROPERTIES

PROPERTY	VALUE
State	Liquid
Odour	Odourless
Melting Range (°C)	
Boiling Range (°C)	
Solubility in water (g/L, 20°C)	
pH (as supplied)	
Specific Gravity (water = 1)	
Relative Density (23°C)	
Autoignition Temp (°C)	
Flash Point (°C)	

Section 10: CHEMICAL STABILITY AND REACTIVITY

Stability of the Substance: Product is stable under normal conditions of storage.

Conditions to avoid: N/A Material to avoid: N/A

Hazardous decomposition Products: None. Hazardous polymerization: Does not occur.



Section 11: TOXICOLOGICAL INFORMATION

Data and interpretation: No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms that may arise if the product is mishandled and over exposure occurs are:

Acute Effects: Acute selenium poisoning (Selenium **99%**) produces central nervous system effects, which include nervousness, convulsions, and drowsiness. Other signs of intoxication can include skin eruptions, lassitude, gastrointestinal distress, teeth that are discoloured or decayed, odorous ("garlic") breath and partial loss of hair and nails.

Swallowed: May be harmful if swallowed. **Skin:** Irritant. Toxic by dermal absorption. **Eye:** Irritant. May cause conjunctivitis.

Inhaled: Irritating to mucous membranes and upper respiratory tract.

Acute Toxicity: Oral (LD⁵⁰); 1.6mg/kg (Rat) (Selenium 99%)

Chronic Effects: Evidence from animal tests and studies on exposed humans indicate that repeated or

prolonged exposure to this chemical could result in liver damage

Chronic Toxicity: Target organ/s; Spleen, Liver, Kidneys.

Carcinogenic Effects: Not classifiable.

Mutagenic Effects: Possible mutagen.

Developmental Effects: In laboratory animals, this compound (Selenium 99%) has caused both birth defects

and damage to the reproductive system.

Section 12: ECOLOGICAL INFORMATION

Potential Environmental Considerations: Harmful to aquatic life with long lasting effects. Harmful to the soil environment.

Ecotoxicity in water (Selenium 99%):

Toxicity to daphnia and other aquatic invertebrates : EC50 - Daphnia magna (Water flea) - 0.39 mg/l - 48 h

Toxicity to algae:

Growth inhibition LOEC - Chlorella vulgaris (Fresh water algae) - 0.083 mg/l - 7 d Growth inhibition EC50 - Ankistrodesmus falcatus - 0.033 mg/l - 14 d

Crown minibilion 2000 7 million caddinad falladad 0.000 mg/r 11

Products of Degradation: Not specified

Section 13: DISPOSAL CONSIDERATIONS

Disposal Information: Triple rinse containers and recycle where appropriate. Dispose of in a landfill area in accordance with local government regulations.

Section 14: TRANSPORT INFORMATION

Hazard Class: 91D

UN Number:
Packing Group:
Hazchem Code:

Land Transport: Check regulations
Sea Transport: Check regulations
Air Transport: Check regulations

Other Information:

Section 15: REGULATORY INFORMATION



HSNO Approval Number: N/A

HSNO Classifications: 9.1D (Aquatic ecotoxic)

Regulatory status: No special regulatory status.

Section 16: OTHER INFORMATION

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Interpretation and Abbreviations

Controls applying to a substance:

- * denotes that changes have been made to these controls, further information on these changes is located in the transfer notice for that substance,
- (R) abbreviation for the term Regulation of the Hazardous Substances regulations

IARC - International Agency for Research on Cancer.

LOEL - Lowest Observed Effect Level.

LD_{LO} – Lethal Dose Low (the lowest dosage per unit of bodyweight of a substance known to have resulted in fatality in a particular animal species).

MAK – Maximum workplace concentration in the workplace air that generally does not have known adverse effects on the health of the employee nor cause unreasonable annoyance when a person is repeatedly exposed during long periods, usually 8 hours daily, 40hour working week).

NZIoC - New Zealand Inventory of Chemicals.

PEL – Permissible exposure limit.

PPE - Personal Protective Equipment.

STEL - Short term exposure limit.

TOC - Total Organic Carbon.

TSCA - US Toxic Substances Control Act Existing Chemicals.

TWA - The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

Sources of key data used to compile the datasheet:

Manufacturers SDS

NZ EPA CCID

Health and Safety at Work (Hazardous Substances) Regulations 2017

Hazardous Substances (Minimum Degrees of Hazard) Notice 2017

Hazardous Substances (Safety Data Sheets Notice 2017

Hazardous Substances (Classification) Notice 2017

Labelling of Hazardous Substances Technical Guide 2012

DISCLAIMER

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END OF SDS