

## 1. PRODUCT IDENTIFIER & IDENTITY FOR THE CHEMICAL

Product Name: **SURECROP Zinc**

### LawrieCo Pty Ltd

A.B.N. 72 134 390 855  
2A Capelli Road, Wingfield,  
SOUTH AUSTRALIA, 5013  
Tel: +61 8 8260 1134  
Fax: +61 8 8260 2263

Web: [www.lawrieco.com.au](http://www.lawrieco.com.au)  
Email: [info@lawrieco.com.au](mailto:info@lawrieco.com.au)



Emergency Contact

Poisons Information Centre:  
13 11 26

LawrieCo Technical Manager:  
0408 268 058

CAS Number	Mixture	Product Number	8020
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**Product Usage:** As a zinc seed coating with the balance of phosphorous, calcium, bio-stimulants and beneficial microbes for use prior to planting.

## 2. HAZARD IDENTIFICATION

**Classified as a Hazardous Substance** in accordance with Safe Work Australia - Hazardous Substances Information System (HSIS) Australia, Global Harmonised System (GHS) documents and in accordance with the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

**Not classified as Dangerous Goods** in accordance with the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG).

### GHS Classification

Signal Word - None

#### Hazard Class

Acute toxicity - oral

Acute toxicity - dermal

Hazardous to the aquatic environment - long-term hazard

#### Hazard Category

5

5

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### Pictogram



Exclamation Mark



Environment

### Hazard Statements

**H303+H313**  
May be harmful if  
swallowed or in  
contact with skin.

Not Defined  
May cause irritation  
to the eyes.

**H413**  
May cause long  
lasting harmful  
effects to aquatic  
life.

### Precautionary Statements

#### General

P102 + P103 Keep out of reach of children. Read label before use.

#### Prevention

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/ eye protection/ face protection.

#### Response

P301 + P330 IF SWALLOWED: Rinse mouth.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332 + P313 If skin irritation occurs: get medical advice/ attention.

P337 + P313 If eye irritation persists: Get medical advice/attention.

#### Storage

P403 + P232 Store in a well-ventilated place. Keep container tightly closed.

#### Disposal

P501 Dispose of contents/ container to an approved waste disposal plant.

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## 3. COMPOSITION / INFORMATION ON INGREDIENTS

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<b>Product name</b>	SURECROP Zinc	<b>SDS Code</b>	8020
<b>Product use</b>	As a zinc seed coating with the balance of phosphorous, calcium, bio-stimulants and beneficial microbes for use prior to planting.		
<b>Ingredients</b>	<b>Name</b>	<b>CAS Number</b>	<b>Proportion w/w</b>
	Water	7732-18-5	10.0 – <30 %
	Zinc Oxide	1314-13-2	10.0 – 30.0%
	Mono Calcium Phosphate	10031-30-8	1.0 – <10.0%
	Proprietary Plant Growth Stimulants (Non-Hazardous)	Mixture	10.0 – 30.0%
	Other Proprietary Ingridients (Non-Hazardous)	Mixture	10.0 – 30.0%

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## 4. FIRST AID MEASURES

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### Description of necessary first aid measures

<b>Inhalation</b>	Unlikely route of exposure, but if applicator feels drowsy, dizzy, tired or experiencing headaches, remove oneself to fresh air.
<b>Ingestion</b>	Never give anything by mouth to an unconscious person. Rinse mouth out with water and give plenty of water to drink. Do NOT induce vomiting. Consult a doctor if any symptoms occur.
<b>Eyes</b>	Rinse thoroughly with plenty of water for at least 15 minutes. Consult a doctor if any irritation occurs.
<b>Skin and hair</b>	If skin or hair contact occurs, remove all contaminated clothing, wash skin and hair with soap and plenty of water.
<b>First aid facilities</b>	Clean water supply, soap or skin cleaner.
<b>Advice to doctor</b>	If poisoning occurs, consult with the Poisons Information Centre (Telephone <b>13 11 26</b> ). Have a copy of this safety data sheet or label available. Treat symptomatically.



### Symptoms caused by exposure

Irritation of the skin and eyes.

### Medical attention and special treatment

Wash exposed skin and hair with water and soap. If swallowed give plenty of water. If in eyes flush continuously with running water for at least 15 minutes.

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## 5. FIRE FIGHTING MEASURES

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<b>Suitable extinguishing equipment</b>	Use water spray, alcohol resistant foam, dry chemical or carbon dioxide. Product is non-flammable.
<b>Specific hazards arising from the chemical fire</b>	Nature of decomposition products not known.
<b>Special protective equipment and precautions for fire fighters</b>	Wear self contained breathing apparatus for fire fighting if necessary. No HAZCHEM Code assigned.
<b>Further information</b>	No data available



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## 6. ACCIDENTAL RELEASE MEASURES

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<b>Personal precautions, protective equipment and emergency procedures</b>	Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Ensure all non-essential personnel are away from the contaminated area. For personal protection see section 8.
<b>Environmental precautions</b>	Prevent from entering waterways, sewage and drains. Collect all residues. For any queries consult Local Statuary Authorities.
<b>Methods and materials for containment and cleaning up</b>	Absorb onto dry sand or earth and placed into labelled drums. Sweep up and shovel. Keep in suitable, closed containers for disposal.



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## 7. HANDLING and STORAGE

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<b>Precautions for Safe Handling</b>	Avoid contact with skin and eyes. For personal protection see section 8. After use and before eating, drinking or smoking, wash all exposed skin and hair with soap and water. Keep out of reach of children.
<b>Conditions of Safe Storage and Incompatibilities</b>	Containers must be clearly labelled. Store at room temperature. Keep container tightly closed out of direct sunlight.
<b>Specific end uses</b>	Apart from uses mentioned in section 1. no other specific uses are stipulated.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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<b>Exposure standards OEL</b>	There are no assigned exposure standards for this product.
<b>Exposure standards TWA</b>	Zinc Oxide dust (1314-13-2) = ppm 10mg/m <sup>3</sup>
<b>Exposure standards STEL</b>	There are no assigned exposure standards for this product.
<b>Biological limited values</b>	There are no known Biological Limited Values that have been assigned.
<b>Engineering controls</b>	Handle in accordance with good industrial hygiene and safety practices. Wash hands before breaks and at the end of the work day.

### Personal Protection

<b>Inhalation AS –NZS 1716</b>	Respiratory protection after application where dust may form after drying. For nuisance exposures use a class P1 or P2 particle respirator. For higher level of protection use a class P3. Use respirators and components tested and approved under appropriate government standards.
<b>Eye AS –NZS 1337</b>	Face shield or safety glasses fitted with side shields must be worn at all times during the handling and application period. Do NOT wear contact lenses. Use equipment tested and approved under appropriate government standards.
<b>Gloves AS –NZS 2161</b>	Handle with gloves. Gloves must be inspected prior to use. It is advisable to wear viton or PVC elbow length gloves at all times during the handling and application period. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Wash and dry hands.
<b>Footwear AS –NZS 2210</b>	It is advisable to wear enclosed footwear during the handling and application period.
<b>Clothing AS –NZS 2919</b>	It is advisable to wear protective clothing during the handling and application period.
<b>Hearing AS –NZS 1270</b>	Hearing protection not required.
<b>Other Requirements</b>	The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Avoid unnecessary contact with eyes, skin and hair. After application, wash skin and hair thoroughly with soap and water.



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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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<b>Appearance</b> ( <i>physical state, colour, etc</i> )	Light brown - grey, liquid suspension concentrate
<b>Odour</b>	Slight earthy odour
<b>Odour threshold</b>	No data available
<b>pH</b> (@ 20°C)	9.90 - 10.20
<b>Melting point</b>	No data available
<b>Freezing point</b>	No data available
<b>Boiling point and boiling range</b>	No data available
<b>Flash point</b>	No data available
<b>Evaporation rate</b>	No data available
<b>Flammability</b> ( <i>solid, gas</i> )	No data available
<b>Upper/lower flammability or</b>	No data available

<b>explosive limits</b>	
<b>Vapour pressure</b>	No data available
<b>Vapour density</b>	No data available
<b>Relative density (@ 15.6°C)</b>	1.26 - 1.31g/mL
<b>Solubility</b>	Miscible in water
<b>Partition coefficient: n-octonal/water</b>	No data available
<b>Auto-ignition temperature</b>	No data available
<b>Decomposition temperature</b>	>100 °C
<b>Viscosity</b>	No data available
<b>Specific heat value</b>	No data available
<b>Saturated vapour concentration</b>	No data available
<b>Release of invisible flammable vapours and gases</b>	No data available
<b>Particle size (average and range)</b>	<250µm, no other data available
<b>Size Distribution</b>	No data available
<b>Shape and aspect ratio</b>	No data available
<b>Crystallinity</b>	No data available
<b>Dustiness</b>	No data available
<b>Surface area</b>	No data available
<b>Degree of aggregation or agglomeration, and dispersibility</b>	No data available
<b>Redox Potential</b>	No data available
<b>Biodurability or biopersistence</b>	No data available
<b>Surface coating or chemistry</b>	No data available
<b>Volatile organic compounds</b>	No data available
<b>% volatile</b>	No data available

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## 10. STABILITY AND REACTIVITY

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<b>Reactivity</b>	No data available
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Possibility of hazardous reactions</b>	Will not polymerise. Combustion in contact with strong oxidisers.
<b>Conditions to avoid</b>	No data available
<b>Incompatible materials</b>	Strong oxidising agents.
<b>Hazardous decomposition products</b>	No data available In the event of fire: see section 5.

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## 11. TOXICOLOGICAL INFORMATION

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<b>Ingredient</b>	Zinc Oxide dust (1314-13-2)
<b>Acute toxicity</b>	No data available
<b>Acute oral toxicity</b>	LD <sub>50</sub> - oral mouse 7950mg/kg LDLo - oral human 500mg/kg
<b>Acute dermal toxicity</b>	LDLo - dermal rat >2,000mg/kg
<b>Acute inhalation toxicity</b>	No data available

**Specific Target Organ Toxicity STOT - single exposure** Oral - May be harmful if swallowed  
Acute toxicity - oral - hazard category 5  
Dermal - May harmful in contact with skin  
Acute toxicity - dermal - hazard category 5

**Specific Target Organ Toxicity STOT - repeated exposure** No data available

#### **Other Health Effects**

**Inhalation** No data available

**Ingestion** Irritant to mucous membranes.

**Eyes** May cause irritation to the eyes. If in eyes, may cause other symptoms including burning sensation, redness, swelling and/or blurred vision.

**Skin** Causes skin irritation. Repeated or prolonged exposure may cause skin dryness and cracking.

**Carcinogenicity** No component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible or confirmed human carcinogen by IARC.

**Mutagenicity** No data available

**Reproductive Toxicity** No data available

**Aspiration hazard** No data available

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

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## 12. ECOLOGICAL INFORMATION

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**Ectotoxicity** Environment - May cause long lasting harmful effects to the aquatic life.  
Hazardous to the aquatic environment - long-term hazard - hazard category 5

**Persistence and degradability** No data available

**Bioaccumulative potential** No data available

**Mobility in soil** No data available

**Other adverse effects** No data available

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## 13. DISPOSAL CONSIDERATIONS

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#### **Spills**

Prevent spills from entering drains, surface water and ground water. Collect all residues. Disposal must be carried out in accordance with Local Statuary Authorities.

#### **Material**

Handle and dispose of in compliance with current environmental waste legislation. If in doubt contact Local Statuary Authorities.

#### **Contaminated Material**

Empty containers may be suitable for reuse or recycling after cleaning and appropriate disposal of the cleaning agents. Disposal method dependent upon degree and nature of contaminated material. Disposal must be carried out in compliance with current environmental waste legislation. If in doubt seek professional advice or contact Local Statuary Authorities.

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## 14. TRANSPORT INFORMATION

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<b>UN number</b>	Not required under ADG Code		
<b>Proper Shipping Name</b>	NOT CONSIDERED DANGEROUS GOODS		
<b>Transport Hazard Class</b>	Not required under ADG Code	<b>Subsidiary Risk</b>	Not required under ADG Code
<b>Packing Group</b>	Not required under ADG Code.		



<b>Environmental hazards for transport purposes</b>	Subject to Annexe III - Harmful Substances carried in Packaged Form.		
<b>Special precautions for user</b>	No data available		
<b>Additional Information</b>	No additional information required by overseas regulatory agencies or regulations for the transport of goods by other modes.		
<b>HAZCHEM</b>	Not required according to ADG Code.		
<b>IMDG</b>	Not required according to IMDG Code.		

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## 15. REGULATORY INFORMATION

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<b>Hazard Category</b>	The product is classified as a <b>Hazardous Substance</b> in accordance with Safe Work Australia in accordance with Hazardous Substances Information System (HSIS) Australia and Global Harmonised System (GHS)		
<b>Montreal Protocol</b>	Not an ozone depleting substance.		
<b>The Stockholm Convention</b>	Not a persistent organic pollutant.		
<b>The Rotterdam Convention</b>	Not a banned pesticide or industrial chemical.		
<b>Basal Convention</b>	Not a hazardous waste.		
<b>MARPOL</b>	Subject to Annexe III - Harmful Substances carried in Packaged Form.		
<b>Safety, health and environmental regulations</b>	<b>SUSMP Classification</b>	Not Classified as a Schedule Poison.	

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## 16. OTHER INFORMATION

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This Safety Data Sheet conforms with the "PREPARATION OF SAFETY DATA SHEETS FOR HAZARDOUS CHEMICALS Code of Practice, DECEMBER 2011" by Safe Work Australia. To meet the GHS requirements under the WHS regulations in relation to the preparation of safety data sheets for hazardous chemicals.

SDS prepared March, 2014 version number 1.

### Legend of Abbreviations and Acronyms

HSIS - Hazardous Substances Information System  
GHS - Globally Harmonised System  
ADG - Australian Dangerous Goods Code for the Transport of Dangerous Goods by Road or Rail  
IERG - Initial Emergency Response Guide  
SDS - Safety Data Sheet  
CAS Number - Chemical Abstract Service Number  
w/w - Weight per weight  
AS/NZS - Australian Standards and New Zealand Standards  
OEL - Occupational Exposure Limit  
STEL - Short Term Exposure Limit  
pH - Potential of hydrogen  
°C - Degrees celcius  
STOT - Specific Target Organ Toxicity  
BCF - Bioconcentration Factor  
MARPOL - International Convention for the Prevention of Pollution from Ships  
IMDG - International Maritime Dangerous Goods  
UN Number - United Nations Number  
SUSMP - Standards for the Uniform Scheduling of Medicines and Poisons  
LD50 - Median lethal dose required to kill half the members of a tested population after a specified test duration  
LDLo - (Lethal dose low) The lowest dosage per unit of bodyweight of a substance known to have resulted in a fatality in a particular animal species. mg/kg - Milligrams per kilogram  
IARC- International Agency for Research on Cancer

### Emergency Contact

Poisons Information Centre:  
13 11 26

LawrieCo Technical Manager:  
0408 268 058

### **Disclaimer**

*The data provided is to best of LAWRIECO's knowledge and is believed to be accurate and reliable as of the date of issue. However no expressed or implied warranties are given. LAWRIECO cannot anticipate or control the conditions under which this information may be used. Therefore, it is the user's responsibility to satisfy themselves as to the suitability and completeness of such information for their particular use. It is the responsibility of the user to ensure that the issue is current. This information given is a non-controlled document.*

### **End of Safety Data Sheet**