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1. PRODUCT IDENTIFIER & IDENTITY FOR THE CHEMICAL

Product Name: SureCROP VAM

LawrieCo Pty Ltd

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Emergency Contact Poi

Poisons Information Centre:

LawrieCo Technical Manager:

13 11 26 0408 268 058

CAS Number Mixture Product Number 8021

Product Usage: As a biological seed coating with the balance of phosphorous, calcium, zinc, manganese, bio-stimulants and beneficial microbes for use prior to planting.

2. HAZARD IDENTIFICATION

Classified as a Non-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 Poison (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 Hazard Category

Acute toxicity - oral 5
Acute toxicity - dermal 5
Hazardous to the aquatic environment - long-term 4

hazard

Pictogram Hazard Statements

H303+H313 Not Defined:

Classified as May be harmful if May cause irritation swallowed. to the eyes.

Precautionary Statements

<u>General</u>

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

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	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.
<u>Storage</u>	,
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
<u>Disposal</u>	
P501	Dispose of contents/ container to an approved waste disposal plant.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Product name SureCROP VAM SDS Code 8021 **Product use** SureCROP vam SDS Code 8021
As a biological seed coating with the balance of phosphorous, calcium, zinc, manganese,

bio-stimulants and beneficial microbes for use prior to planting.

Ingredients Name CAS Number Proportion w/w

Water7732-18-545.0 - <50.0%Zinc Oxide1314-13-21.0 - <5.0%Manganese (II) Carbonate598-62-91.0 - <5.0%Proprietary Plant Growth Stimulants (Non-Hazardous)Mixture30.0 - <35.0%Other Proprietory Ingrdients (Non-Hazardous)Mixture5.0 - <10.0%

4. FIRST AID MEASURES

Description of necessary first aid measures

Inhalation Unlikely route of exposure, but if applicator feels drowsy, dizzy, tired or

experiencing headaches, remove oneself to fresh air.

Ingestion 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.

Eyes Rinse thoroughly with plenty of water for at least 15 minutes. Consult a

doctor if any irritation occurs.

Skin and hair If skin or hair contact occurs, remove all contaminated clothing, wash

skin and hair with soap and plenty of water.

First aid facilities Clean water supply, soap or skin cleaner.

Advice to doctor If poisoning occurs, consult with the Poisons Information Centre

(Telephone 13 11 26). 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.

5. FIRE FIGHTING MEASURES

Suitable extinguishing equipment Use water spray, alcohol resistant foam, dry chemical or carbon dioxide.

Product is non-flammable.

Specific hazards arising from the chemical fire

Nature of decomposition products not known.



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Special protective equipment and precautions for fire fighters

Further

information

Wear self contained breathing apparatus for fire fighting if necessary.

No HAZCHEM Code assigned.



No data available

ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Environmental

containment and cleaning up

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.

Prevent from entering waterways, sewage and drains. Collect all residues.

precuatiions For any gueries consult Local Statuary Authorities.

Methods and Absorb onto dry sand or earth and placed into labelled drums. Sweep up materials for

and shovel. Keep in suitable, closed containers for disposal.



HANDLING and STORAGE

Pecuations for Safe Handling

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.

Conditions of Safe Storage and Incompatabilities

Containers must be clearly labelled. Store at room temperature. Keep container tightly closed

out of direct sunlight.

Specific end uses Apart from uses mentioned in section 1. no other specific uses are stipulated.

EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure standards

0EL

There are no assigned exposure standards for this product.

Exposure standards

Zinc Oxide dust (1314-13-2) = ppm

TWA

 10mg/m^3

Exposure standards

STEL

There are no assigned exposure standards for this product.

Biological limited

values

There are no known Biological Limited Values that have been assigned.

Engineering controls

Handle in accordance with good industrial hygiene and safety practices. Wash hands

before breaks and at the end of the work day.

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Personal Protection

Inhalation Respiratory protection after application where dust may form after **AS –NZS 1716** 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.

Eye Face shield or safety glasses fitted with side shields must be worn

AS –NZS 1337 at all times during the handling and application period. Do NOT wear contact lenses. Use equipment tested and approved under

appropriate government standards.

GlovesHandle 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.

Footwear It is advisable to wear enclosed footwear during the handling and

AS –NZS 2210 application period.

Clothing It is advisable to wear protective clothing during the handling and

AS -NZS 2919 application period.

Hearing Hearing protection not required.

AS –NZS 1270

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.



9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, colour, etc) Light brown - grey, liquid suspension concentrate

Odour Slight earthy odour
Odour threshold No data available

pH (@ 20°C)

Melting point

Freezing point

Boiling point and boiling range
Flash point

9.90 - 10.20

No data available
No data available
No data available
No data available

Flash point

Evaporation rate

Flammability (solid, gas)

Upper/lower flammability or

No data available
No data available
No data available

explosive limits

Vapour pressureNo data availableVapour densityNo data availableRelative density (@ 15.6°C)1.26 - 1.31g/mLSolubilityMiscible in waterPartition coefficient:No data available

Partition coefficient: n-octonal/water

Auto-ignition temperature No data available

Decomposition temperature >100 °C

Viscosity
Specific heat value
Saturated vapour concentration
Release of invisible flammable
No data available
No data available
No data available

vapours and gases

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Particle size (average and range) <250μm, no other data available

Size DistributionNo data availableShape and aspect ratioNo data availableCrystallinityNo data availableDustinessNo data availableSurface areaNo data availableDegree of aggregation orNo data available

agglomeration, and dispersibility
Redox Potential
Biodurability or biopersistence
Surface coating or chemistry
Volatile organic compounds
% volatile
No data available
No data available
No data available

10. STABILITY AND REACTIVITY

Reactivity No data available

Chemical stability Stable under recommended storage conditions.

Possibility of Will not polymerise. Combustion in contact with strong oxidisers.

hazardous reactions

Conditions to avoid No data available Incompatible Strong oxidising agents. materials

Hazardous No data available

decomposition In the event of fire: see section 5.

products

11. TOXICOLOGICAL INFORMATION

Ingredient Zinc Oxide dust (1314-13-2)

Acute toxicity No data available

Acute oral toxicity LD₅₀ - oral mouse 7950mg/kg LDLo - oral human 500mg/kg

Acute dermal toxicity

Acute inhalation

toxicity

LDLo - dermal rat >2,000mg/kg

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

No data available

Specific Target Organ No data

Toxicity STOT - repeated exposure

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

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probable, possible or confirmed human carcinogen by IARC.

Mutagenicity No data available Reproductive No data available

Toxicity

Aspiration No data available

hazard

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

12. ECOLOGICAL INFORMATION

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 No data available

degradability

Bioaccumulative

No data available

potential

Mobility in soil Other adverse No data available

effects

No data available

13. DISPOSAL CONSIDERATIONS

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.

14. TRANSPORT INFORMATION

UN number Not required under ADG Code

Proper Shipping NOT CONSIDERED DANGEROUS GOODS

Not required under

Name

Class ADG Code

Packing Group Not required under ADG Code. Not required under ADG

Code

Environmental

Transport Hazard

Subject to Annexe III - Harmful Substances carried in Packaged Form.

Subsidiary Risk

hazards for transport purposes

Special No data available



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precautions for

user

Additional No additional information required by overseas regulatory agencies or

Information regulations for the transport of goods by other modes.

HAZCHEM Not required according to ADG Code. **IMDG** Not required according to IMDG Code.

15. REGULATORY INFORMATION

Hazard The product is classified as a Non-Hazardous Substance in accordance with Safe Work Australia Category

in accordance with Hazardous Substances Information System (HSIS) Australia and Global

Harmonised System (GHS)

Montreal Not an ozone depleting substance.

Protocol

The Stockholm Not a persistent organic pollutant.

Convention

The Rotterdam Not a banned pesticide or industrial chemical.

Convention

Basal Not a hazardous waste.

Convention

MARPOL Subject to Annexe III - Harmful Substances carried in Packaged Form.

Safety, health

and

environmental regulations

SUSMP Classification Not Classified as a Schedule Poison.

16. OTHER INFORMATION

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

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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:

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0408 268 058

Disclaimer

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End of Safety Data Sheet