



# Material Safety Data Sheet

## LACGRO™ VITAMIN AND TRACE MINERAL PREMIX FOR DAIRY CATTLE

P0001 Name: Lacgro Premix for Dairy Cattle 25kg

### SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name:** Lacgro™ Vitamin and Trace Mineral Premix for Dairy Cattle  
**Manufacturer's Product Code:** **DGP000107**  
**Other Names:** None  
**Recommended Use:** Additive for stockfeed  
**Company:** BEC Feed Solutions Pty Ltd A.C.N. 010 345 150  
**Address:** 50 & 66 Antimony Street, Carole Park QLD 4300  
 PO Box 475, Goodna QLD 4300  
**Phone:** (07) 3723 9800  
**Emergency Phone Number:** Office Hours: (07) 3723 9800 After Hours: 0428 520 038

### SECTION 2 HAZARDS IDENTIFICATION

Classified as non-hazardous according to the criteria of NOHSC.  
 Non-dangerous goods according to the criteria of the ADG Code.

**Risk Phrases:** None

**Safety Phrases:** None – implement and maintain good workplace hygiene practices

### SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

#### Ingredients:

Chemical Entity	Common Name	CAS Number	Proportion
Copper sulphate		7758-98-7	1 – < 10%
Zinc sulphate		7733-02-0	1 – < 10%
Sodium selenite		10102-18-8	< 1%
Other ingredients determined not to be hazardous at their concentrations in this product			to 100%

**SECTION 4 FIRST AID MEASURES**

**Swallowed:** Do not induce vomiting. Remove any material in the mouth. Seek medical advice if symptoms develop or persist.

**Eye:** Hold eyes open and flood with water for at least 15 minutes. Seek medical advice if adverse effects develop or persist. Only skilled personnel should remove contact lenses after an eye injury.

**Skin:** Remove any contaminated clothing and wash skin thoroughly with soap and water. Seek medical advice if symptoms develop or persist.

**Inhaled:** Remove from source of product and apply artificial respiration if not breathing. Ensure that patient is comfortable. If symptoms develop or persist, seek medical advice.

**First Aid Facilities:** Potable water should be available to rinse eyes or skin. Eye bath should be available and ready for use.

**Advice to Doctor:** Treat symptomatically.

**Additional Information:** For advice, contact a Poisons Information Centre  
(phone Australia 13 1126, New Zealand 0800 764 766) or a doctor.

**SECTION 5 FIRE FIGHTING MEASURES**

**Suitable Extinguishing Media:** Use extinguishing media suitable for surrounding fire conditions.

**Hazards from Combustion Products:** Exposure to high heat sources may cause decomposition of the product and the release of irritating fumes.

**Special Protective Precautions and Equipment for Fire Fighters:** Wear protective clothing and self-contained breathing apparatus.

**Additional Information:** Not relevant.

**SECTION 6 ACCIDENTAL RELEASE MEASURES**

**Emergency Procedures:** Remove unnecessary personnel from the area. Avoid raising dust as far as is practicable. Clean-up crew should wear protective overalls, gloves, fully enclosed footwear, goggles/glasses, and dust mask.

**Methods and Materials for Containment and Clean Up Procedures:** Collect spill using a broom and shovel or similar tools and store in sound containers for subsequent disposal. Avoid contamination of streams, watercourses and sewers.

**SECTION 7 HANDLING AND STORAGE**

**Precautions for Safe Handling:** Ensure containers are clearly labelled, of a type suitable for the product, and are clean and free of other materials. Use clean and dry equipment to dispense the product. Avoid contact with eyes and skin. Avoid breathing dust. Do not eat, drink or smoke in work areas. Wash hands and face thoroughly after handling and before eating, drinking, smoking or using toilet facilities.

**Conditions for Safe Storage:** When not being used, product containers should be kept sealed and stored in a cool, dry place.

## SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

**National Exposure Standards:** No exposure standards have been found for this product. There is a blanket limit of 10 mg/m<sup>3</sup> for nuisance dusts. Exposure standards for listed ingredients for which an NES has been adopted by NOHSC (values expressed as TWA – time-weighted average (8 hours) – unless otherwise indicated) are:

Copper, dusts & mists (as Cu) 1 mg/m<sup>3</sup>                      Selenium compounds (as Se) 0.2 mg/m<sup>3</sup>

**Biological Limit Values:** No biological limit allocated.

**Engineering Control Measures:** Ensure adequate ventilation is provided. Avoid dust generation.

**Personal Protective Equipment:** Use sensible work practices that reduce operator exposure to the product. Protective equipment must be worn, including dust mask, impermeable gloves & goggles.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Grey powder	<b>pH:</b>	Not relevant
<b>Odour:</b>	Bland	<b>Vapour Density:</b>	Not measured
<b>Vapour Pressure:</b>	Not relevant	<b>Melting Point:</b>	Not measured
<b>Boiling Point:</b>	Not measured	<b>Specific Gravity:</b>	Not measured
<b>Solubility in Water:</b>	Not measured	<b>Ignition Temperature:</b>	Not measured
<b>Flash Point:</b>	Not measured		
<b>Upper and Lower Flammable (Explosive) Limits in Air:</b>		Not measured	

## SECTION 10 STABILITY AND REACTIVITY

**Chemical Stability:** Product is stable under normal ambient temperature conditions.

**Conditions to Avoid:** Do not store near high heat sources.

**Incompatible Materials:** Acids and strong oxidising agents.

**Hazardous Decomposition Products:** Not available.

**Hazardous Reactions:** Not available.

## SECTION 11 TOXICOLOGICAL INFORMATION

The product is a mixture of ingredients and has not been tested for health effects as a whole. Data has been collected on the health effects of the ingredients. The toxicological information estimates the combined health effects taking into account the relative proportions of each ingredient.

### Acute Health Effects

**Swallowed:** May cause irritation, nausea and vomiting. Copper sulphate: metallic taste in mouth; burning sensation in throat and vomiting are typical effects; more severe poisoning causes diarrhoea and ulceration of the gastrointestinal tract; can be fatal. Zinc sulphate: low toxicity; if ingested abdominal pain, nausea, vomiting and diarrhoea may occur, accompanied by irritation to the mouth and throat, shock and convulsions and possible complications including liver damage with jaundice, hypertension and renal failure; may lead to coma and death.

**Eye:** May cause irritation of the eyes. Copper sulphate: can cause local inflammation, tissue destruction, corneal opacity and adhesion of the eyelid to the eye; traces of sulphuric acid impurity may contribute to these effects. Zinc sulphate may irritate eyes.

**Skin:** May cause irritation of the skin. Copper sulphate: can cause irritation to skin; can discolour skin. Zinc sulphate may irritate skin.

**Inhaled:** May cause irritation of the respiratory tract. Copper sulphate: dusts and mists (copper solutions) can cause irritation of the nasal passages and throat; ulceration of the nasal septum is possible, but may be due to traces of sulphuric acid impurities. Zinc sulphate: dust may be irritating; coughing and sore throat may occur.

### **Chronic Health Effects**

Chronic health effects stated for listed ingredients – Copper sulphate: repeated exposure to the dust or fumes can damage the liver and/or the lungs; it can also cause copper to deposit in the skin and hair, leaving a green colour; metallic taste may also occur; repeated exposure can cause shrinking of the lining of the inner nose, with a watery discharge, or thickening of the skin; exposure may cause skin allergy; if allergy develops, even low future exposures may trigger a rash; very irritating substances may affect the lungs; it is not known whether copper sulphate causes lung damage; copper is an essential element and its level in the body is strictly controlled; under most conditions, excess copper is excreted in the urine and faeces.

### **Summary of Toxicity Data**

Toxicity information for listed ingredients of this product:

Copper sulphate: LD<sub>50</sub> (oral, rat) 300 mg/kg

Sodium selenite: LD<sub>50</sub> (oral, rat) 7 mg/kg

Zinc sulphate: LD<sub>50</sub> (oral, rat) 1,710 mg/kg

## **SECTION 12 ECOLOGICAL INFORMATION**

**Ecotoxicity:** Not available.

**Persistence/degradability:** Not available.

**Mobility:** Not available.

## **SECTION 13 DISPOSAL CONSIDERATIONS**

**Disposal Methods:** Unwanted material should be disposed of in an approved chemical dump.

**Special Precautions for Landfill or Incineration:** Not available.

## **SECTION 14 TRANSPORT INFORMATION**

**UN Number:** Not relevant

**Proper Shipping Name:** Not relevant

**Class:** Not relevant

**Subsidiary Risk:** Not relevant

**Packing Group:** Not relevant

**Hazchem Code:** Not relevant

**Special Precautions for User:** Not available

## **SECTION 15 REGULATORY INFORMATION**

**Poisons Schedule:** S6

**APVMA Registration:** Not relevant

**SECTION 16 OTHER INFORMATION**

The information supplied on this Material Safety Data Sheet has been compiled from information available to our company at the time of preparation. It is, to the best of our knowledge, up to date and accurate. No warranty express or implied is given.

<i>PREPARED BY: W Killin</i>	<i>ISSUED: 10<sup>th</sup> July 2008</i>
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