

MATERIAL SAFETY DATA SHEET

CalciTAT-50

SECTION 1 – IDENTIFICATION OF THE MATERIAL AND SUPPLIER

IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY

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| Chemical nature: | Aqueous Solution |
| Product Identifier: | CalciTAT-50 |
| ACVM Number: | A003700 |
| Product Use: | Calcium injection |
| Details of the supplier of the safety data sheet: | |
| Company name: | Ethical Agents Veterinary Marketing Limited |
| Company Address: | 54 Hobill Avenue Wiri, Auckland 2104, New Zealand |
| Tel: | +64 9 262 1388 |
| Email: | info@ethicalagents.co.nz |
| Website: | www.eavm.nz |
| Emergency telephone number: | Poisons Information Centre - New Zealand ph: 0800 POISON (0800 764 766) |

SECTION 2 – HAZARDS IDENTIFICATION

Statement of Hazardous Nature

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| This product is classified as: | Non Hazardous |
| Risk Phrases: | N/A |
| Safety Phrases: | S45 – In case of accident or if you feel unwell, contact a doctor or Poisons Information Centre immediately (show the label where possible). |
| DG Classification: | N/A. Not a Dangerous Good under the DG Code. |
| UN Number: | N/A. |

PREVENTION:

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| P102: | Keep out of reach of children. |
| P201: | Obtain special instructions before use. |
| P202: | Do not handle until all safety precautions have been read and understood. |
| P262: | Do not get in eyes, on skin, or on clothing. |
| P281: | Use personal protective equipment as required. |

RESPONSE:

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| P337: | If eye irritation persists: seek medical attention |
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| P352: | Wash with plenty of soap and water |
| P301+P330+P331: | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting |
| P308+P313: | If exposed or concerned: Get medical advice. |
| P370+P378: | Not combustible. Use extinguishing media suited to burning materials |

STORAGE:

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| P405: | Store locked up. |
| P402+P404: | Store in a dry place. Store in a closed container. |
| P403+P435: | Store in a well-ventilated place. Keep cool |

DISPOSAL:

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| P501: | Dispose of contents and containers as specified on the registered label |
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EMERGENCY OVERVIEW

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| Physical Description & Colour: | Clear, colourless liquid. |
| Odour: | Mild odour. |

POTENTIAL HEALTH EFFECTS

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| Inhalation: | N/A |
| Short Term Exposure: | Significant inhalation exposure is considered to be unlikely. Available data indicates that this product is not harmful. However product may be mildly irritating, although unlikely to cause anything more than mild transient discomfort. |
| Long Term Exposure: | No data for health effects associated with long term inhalation. |
| Skin Contact: | |
| Short Term Exposure: | Available data indicates that this product is not harmful. It should present no hazards in normal use. However product may be irritating but is unlikely to cause anything more than mild transient discomfort which should disappear once contact ceases. |
| Long Term Exposure: | No data for health effects associated with long term eye exposure. |
| Eye Contact: | |
| Short Term Exposure: | Exposure via eyes is considered to be unlikely. This product may be mildly irritating to eyes, but is unlikely to cause anything more than mild discomfort which should disappear once product is removed. |
| Long Term Exposure: | No data for health effects associated with long term eye exposure. |
| Ingestion: | |
| Short Term Exposure: | Significant oral exposure is considered to be unlikely. However, this product maybe mildly irritating, but is unlikely to cause anything more than transient discomfort. |
| Long Term Exposure: | No data for health effects associated with long term ingestion. |

Carcinogen Status:

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| SW: | No significant ingredient is classified as carcinogenic by SW. |
| NTP: | No significant ingredient is classified as carcinogenic by NTP. |
| IARC: | No significant ingredient is classified as carcinogenic by IARC. |

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

| Ingredients | CAS Number | Conc, % | TWA (mg/m ³) | STEL (mg/m ³) |
|---------------------------------|------------|---------|--------------------------|---------------------------|
| Calcium Borogluconate | 5743-34-0 | 429gm/L | Not set | Not set |
| Calcium Gluconate H2O | 18016-24-5 | 31g/L | Not set | Not set |
| Calcium Hydroxide | 1305-62-0 | 13.2g/L | Not set | Not set |
| Magnesium Chloride | 14989-29-8 | 0.8gm | Not set | Not set |
| Phosphoryl Ethanolamine | 1071-23-4 | 0.6gm | Not set | Not set |
| Other non hazardous ingredients | Secret | Not set | Not set | Not set |

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other no hazardous ingredients are also possible.

The TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5-day working week. The STEL (Short Term Exposure Limit) is an exposure value that may be equalled (but should not be exceeded) for no longer than 15 minutes and should not be repeated more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak" is used when the TQA limit, because of the rapid action of the substance, should never be exceeded, even briefly.

SECTION 4 – FIRST AID MEASURES

General Information:

You should call the Poisons Information Centre if you feel that may have been poisoned, burned or irritated by this product. The number is from anywhere in New Zealand (0800 764 766) and is available at all times. Have this SDS with you when you call.

Self-Injection:

If accidental self-injection occurs medical advice should be sought on the management of the injection, particularly those near a joint or associated with bruising. If possible, the application of gentle squeezing pressure with absorbent material (e.g. facial tissues) at the injection site will swab up unabsorbed vaccine. Strong squeezing of the site should be avoided. The damaged area should be thoroughly cleansed and a topical antiseptic applied.

Inhalation:

First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

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| Skin Contact: | Irritation is unlikely. However, if irritation does occur, flush with luke warm, gently flowing water for 5 minutes or until chemical is removed. |
| Eye Contact: | No effects expected. If irritation does occur, flush eye(s) with luke warm, gently flowing water for 5 minutes or until chemical is removed. |
| Ingestion: | If product is swallowed or gets in mouth, do NOT induce vomiting; wash mouth with water and give some water to drink. If symptoms develop, or if in doubt contact a Poisons Information Centre or a doctor. |

SECTION 5 – FIREFIGHTING MEASURES

Fire and Explosion Hazards: There is no risk of an explosion from this product under normal circumstances if it is involved in a fire.

Only small quantities of decomposition products are expected from this product at temperatures normally achieved in a fire. This will only occur after heating to dryness.

Fire decomposition products from this product maybe toxic if inhaled. Take appropriate protective measures.

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| Extinguishing Media: | Not Combustible. Use extinguishing media suited to burning materials. |
| Fire Fighting: | If a significant quantity of this product is involved in a fire, call the fire brigade. |
| Flash point: | Does not burn |
| Upper Flammability Limit: | Does not burn |
| Lower Flammability Limit: | Does not burn |
| Autoignition temperature: | Not applicable – does not burn |
| Flammability Class: | Does not burn |

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Accidental release: This product is sold in small packages, and the accidental release from one of these is not usually a cause for concern. For minor spills, refer to product label for specific instructions. No special protective clothing is normally necessary because of this product. However, it is good practice to wear latex gloves when handling injectables. In the event of a major spill, prevent spillage from entering drains or water courses and call emergency services.

SECTION 7 – HANDLING AND STORAGE

Handling:

Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Check Section 8 of this SDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under “storage” should be followed during handling in order to minimise risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.

Storage:

Observe all relevant regulations regarding sale, transport and storage of this schedule of product. Protect this product from light. Store in the closed original container in a dry, cool, well ventilated area out of direct sunlight. Make sure that the product does not come into contact with substances listed under “Incompatibilities” in Section 10. Some liquid preparations settle or separate on standing and may require stirring or shaking before use. Check packaging – there may be further storage instructions on the label.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory equipment: NZS 1715, Protective Gloves: Occupational Protective Clothing: NZS 4501 set 2008, Industrial Eye Protection NZS 1337, Occupational Protective Footwear: NZS 2210.

SW Exposure Limits

TWA mg/m³

STEL mg/m³

Exposure limits have not been established by SW for any of the significant ingredients in this product. No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

Ventilation

No special ventilation requirements are normally necessary for this product. However, make sure that the work environment remains clean and that vapours and mists are minimised.

Eye Protection:

Eye protection is not normally necessary when this product is being used. However, if in doubt, wear suitable protective glasses or goggles.

Skin Protection:

The information at hand indicates that this product is not harmful and that normally no special skin protection is necessary. However, we suggest that you routinely avoid contact with all chemical products and that you wear suitable gloves (preferably elbow-length) when skin contact is likely.

Protective Material Types:

There is no specific recommendation for any particular protective material type.

Respirator:

Usually, no respirator is necessary when using this product.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

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| a) Appearance: | Clear colourless liquid |
| b) Odour: | Mild odour |
| c) Odour Threshold: | No Data |
| d) Boiling Point: | Approx. 100°C at 100kPa |
| e) Melting point | Approx. 0°C |
| f) Freezing point: | Approx. 0°C |
| g) Volatiles: | Water component |
| h) Vapour pressure: | 2.37 kPa at 20°C (water vapour pressure) |
| i) Vapour density: | No Data |
| j) Specific Gravity: | No Data/expect to be about 1.0 |
| k) Water Solubility: | Completely soluble in water |
| l) pH: | Not Data |
| m) Volatility: | No Data |
| n) Evaporation Rate: | No Data |
| o) Coeff Oil/water Distribution: | No Data |
| p) Autoignition temperature: | No Data – does not burn |

SECTION 10 – STABILITY AND REACTIVITY

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| Reactivity | This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties. |
| Conditions to Avoid | Protect this product from light. Store in the closed original container in a dry, cool, well ventilated area out of direct sunlight. |
| Incompatibilities | No particular Incompatibilities. |
| Fire Decomposition | Only small quantities of decomposition products are expected from this product at temperatures normally achieved in a fire. This will only occur after heating to dryness. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgement, and unconsciousness followed by coma and death. |
| Polymerisation | This product will not undergo polymerisation reactions |

SECTION 11 – TOXICOLOGICAL INFORMATION

Local Effects: Refer to packaging if there are any
SEEK IMMEDIATE MEDICAL ADVICE.

Classification of Hazardous Ingredients

Ingredient Risk Phrases

No ingredient mentioned in the HSIS Database is present in this product at hazardous concentrations.

SECTION 12 – ECOLOGICAL INFORMATION

Insufficient data to be sure of status.

SECTION 13 – DISPOSAL CONSIDERATIONS

Disposal:

Dispose of empty container by wrapping with paper and putting in garbage. Discarded needles should immediately be placed in a designated and appropriately labelled sharps container.

SECTION 14 – TRANSPORT INFORMATION

UN Number:

This product is not classified as a Dangerous Good by DG, IATA or IMDG/IMSBC criteria. No special transport conditions are necessary unless required by other regulations.

SECTION 15 – REGULATORY INFORMATION

AICS:

All of the significant ingredients in this formulation are compliant with NICNAS regulations. The Active ingredient is mentioned in the SUSMP.

SECTION 16 – OTHER INFORMATION

This SDS contains only safety-related information. For other data see product literature.

Acronyms:

| | |
|----------------------|---|
| ADG Code: | Australian Code for the Transport of Dangerous Goods by Road and Rail (7 th edition) |
| AICS: | Australian Inventory of Chemical Substances |
| SWA: | Safe Work AUSTRALIA |
| CAS Number: | Chemical Abstracts Service Registry Number |
| Hazchem Code: | Emergency action code of numbers and letters that provide information to emergency services especially firefighters |
| IARC: | International Agency for Research on Cancer |
| NOS: | Not otherwise specified |
| NTP: | National Toxicology program (USA) |
| R-Phrase: | Risk Phrase |
| SUSMP: | Standard for the Uniform Scheduling of Medicines & Poisons |

This SDS summarises our best knowledge of the Health and Safety Hazard Information of the product and how to safely handle and use the product in the workplace. Each user must review this SDS in the context of how the product will be handled and used in the workplace.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company so we can attempt to obtain additional information from our suppliers.

Our responsibility for our products sold is subject to our Standard Terms & Conditions, A copy of which is sent to our customers and is also available on request.

Please read all labels carefully before using this product.