



TILMICABS AC (TILMICOSIN PHOSPHATE) AQUEOUS CONCENTRATE

Abbey Animal Health Pty Ltd SAFETY DATA SHEET

Section 1- Identification of Product and Supplier

Supplier Company Details: Abbey Animal Health Pty Ltd

Address: 165 Sharp ST, Cooma NSW 2630

Telephone Number: 02 8090 7187

Facsimile Number: 02 9475 0775

Emergency Number: Australian Poisons Information Centre: 13 11 26 (24 Hour service).

PRODUCT NAME

TILMICABS AC (TILMICOSIN PHOSPHATE) AQUEOUS CONCENTRATE

PRODUCT USE

For the treatment of pneumonia in pigs caused by *Actinobacillus pleuropneumoniae*, *Actinomyces pyogenes*, *Mycoplasma hyopneumoniae*, *Pasteurella multocida*, and other organisms sensitive to Tilmicosin.

Section 2- Hazards Identification

Statement of Hazardous Nature: Hazardous according to the criteria of Safe Work Australia (SWA). Hazchem Code: None allocated.

Not a Dangerous Good according to the Australian Dangerous Goods (ADG) Code. ADG Classification: None allocated.

Poisons Schedule: S4

Risk Phrases: Harmful by inhalation (R20). Irritating to eyes (R36). May cause sensitisation by inhalation and skin contact (R42/43).

Potential Acute Health Effects: Repeated exposure may cause allergic disorders. Avoid contact with skin and eyes. Irritant (eyes). Severe allergen. Heart effects.

Caution Statement: May be irritating to the eyes, and is classified as a severe allergen because repeated unprotected exposures are likely to cause allergic reactions. Effects of exposure may include changes in heart rate/rhythm and heart tissue changes.

Inhalation and skin contact: Tilmicosin phosphate powder - Allergic reactions in a manufacturing setting have been reported. Allergy symptoms may include skin rash, watery eyes, shortness of breath, nasal congestion, sneezing, coughing, and wheezing.

Section 3- Composition / Information on Ingredients

| Chemical Name | CAS No. | Content (%w/v) |
|----------------------|-------------|----------------|
| Tilmicosin Phosphate | 137330-13-3 | 25 |
| Water | 7732-18-5 | > 70 |

Other ingredients determined not to be hazardous.

Section 4- First Aid Measures

Call Poisons Information Centre Phone Australia 131 126, if you feel that you may have been poisoned or irritated by this product.

Eye Contact: Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. See an ophthalmologist (eye doctor) or other physician immediately.

Skin Contact: Remove contaminated clothing and clean before reuse. Wash all exposed areas of skin with plenty of soap and water. Get medical attention if irritation develops.

Inhalation: Move individual to fresh air. Get medical attention if breathing difficulty occurs. If not breathing, provide artificial respiration assistance (mouth-to-mouth) and call a physician immediately.

Ingestion: Do not induce vomiting. Call a physician or Poison Information Centre. Phone Australia 131 126. If available, administer activate charcoal (6-8 heaping teaspoons) with two to three glasses of water. Do not give anything by mouth to an unconscious person. Immediately transport to a medical care facility and see a physician.

SAFETY DIRECTIONS: Will irritate the eyes. Repeated exposure may cause allergic disorders. Avoid contact with skin and eyes. Wash hands after use. When opening the container and using the product, wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and goggles. After each day's use, wash gloves, goggles and contaminated clothing.

Section 5 - Fire Fighting Measures

Fire and Explosion Hazards: None known.

Hazardous Combustion Products: May emit toxic fumes when exposed to heat or fire.

Extinguishing Media: Water, carbon dioxide, dry chemical and foam.

Flash Point: No applicable information found.

Section 6 - Accidental Release Measures

Spills: Prevent further migration into the environment. Use absorbent/adsorbent material to solidify liquids. Sweep up or vacuum.

Major Spills: In the event of a major spill, prevent spillage from flowing onto adjacent land or entering drains or water courses such as streams, ponds, or lakes. Wear protective equipment, including eye protection, to avoid exposure (see Section 8 for specific handling precautions).

Environmental Protection: sludge from waste treatment ponds must be disposed of in approved landfills or contaminated wastes. This product may accumulate in soils. DO NOT spread effluent containing Tilmicosin on the same pastures or croplands in successive years. DO NOT allow wastes from pigs treated with Tilmicosin to enter waterways. These wastes contain Tilmicosin which is highly toxic to algae.

Personal Protective Equipment: When opening the container and using the product, wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and goggles. After each day's use, wash gloves, goggles and contaminated clothing.

Section 7 - Handling and Storage

Handling: Keep exposure to this product to a minimum, and minimise the quantities kept in work areas as repeated exposure may cause allergic disorders. Sensitive workers should use protective clothing. When preparing product for use, wear cotton overalls buttoned to the neck and a washable hat, elbow-length PVC gloves and goggles. After each day's use, wash gloves, goggles and contaminated clothing.

Storage: Store below 30°C (Room Temperature) in a safe place. Protect from direct sunlight.

Section 8 - Exposure Controls / Personal Protection

Safety Directions: Will irritate the eyes. Repeated exposure may cause allergic disorders. Avoid contact with skin and eyes. Wash hands after use. When opening the container and using the product, wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and goggles. After each day's use, wash gloves, goggles and contaminated clothing.

Additional Personal Protective Equipment:

Respiratory Protection: Use an approved respirator.

Eye Protection: Chemical goggles and/or face shield.

Ventilation: Laboratory fume hood or local exhaust ventilation.

In a manufacturing setting, wear chemical-resistant gloves and body covering to minimize skin contact. If handled in a ventilated enclosure, as in a laboratory setting, respirator and goggles or face shield may not be required. Safety glasses are always required.

Section 9 - Physical and Chemical Properties

Appearance: clear light straw coloured liquid solution

Physical State: Liquid

Boiling Point: N/A

Melting Point: N/A

Water Solubility: Soluble.

Vapour Density: N/A

Vapour Pressure: N/A

Section 10 - Stability and Reactivity

Stability: Stable at normal temperatures and pressures. This product needs to be stored at 30°C (Room Temperature) and away from direct sunlight.

Incompatibilities: May react with strong oxidizing agents (e.g., peroxides, permanganates, nitric acid, etc.).

Fire Decomposition: May emit toxic fumes when heated to decomposition.

Polymerisation: unlikely; not expected to occur.

Section 11 - Toxicological Information

ALWAYS READ AND FOLLOW THE LABEL INSTRUCTIONS AND SAFETY DIRECTIONS

Skin Irritation: Irritant

Eye Irritation: Irritant

Sensitisation: Repeated exposure may cause allergic disorders

Oral: Tilimicosin phosphate LD₅₀ 855 mg/kg; Rat (fasted).

Skin: Tilimicosin - 5000 mg/kg, Rabbit, no deaths or toxicity.

Inhalation: Tilimicosin - Rat, median lethal concentration 3800 mg/m³ for 4 hours, reduced activity, labored breathing.

Carcinogenicity: Not listed as a carcinogen.

Reproductive toxicity: Tilimicosin phosphate: no effects identified in animal studies except a slight increase in offspring mortality at maternally toxic doses.

Mutagenicity: Tilimicosin: not mutagenic in bacterial or mammalian cells.

Target Organ Effects (Tilmicosin phosphate): Heart effects (increased heart weight and size, heart muscle degeneration characterised by small areas of cell death, severe and persistent increase in heart rate with changes in electrocardiogram ST, Q, and T wave forms occurred generally at higher oral or injection doses where some mortality occurred), liver effects (increased liver weight and enzyme activity). Other effects include increased adrenal and kidney weight, increased cell size in adrenal cortex, mucosal oedema of the gall bladder, and some retinal fluid accumulation.

Section 12 - Ecological Information

Tilmicosin is highly toxic to algae.

ENVIRONMENTAL PROTECTION: Sludge from waste treatment ponds must be disposed of in approved landfills or contaminated wastes. This product may accumulate in soils. DO NOT spread effluent containing Tilmicosin on the same pastures or croplands in successive years. DO NOT allow wastes from pigs treated with Tilmicosin to enter waterways. These wastes contain Tilmicosin which is highly toxic to algae.

Eco-toxicity Data of Tilmicosin:

Fish: Practically non-toxic: LC50 716 mg/L (Bluegill; 96 hour).

Algae: Highly toxic: EC50 0.354 mg/L (*S. capricornutum*).

Crustaceans: Slightly toxic: LC50 57.3 mg/L (*Daphnia magna*; 48 hour).

Summary:

- Practically non-toxic to fish, birds, earthworms, fungus, moulds, soil bacteria, and most plants.
- Slightly toxic to aquatic invertebrates.
- Moderately toxic to nitrogen-fixing bacteria.
- Highly toxic to green algae and blue-green algae.
- No volatility expected. Low potential to bio-concentrate in aquatic organisms.
- Low mobility in soil.
- Persistent in the soil environment.
- Persistence in the aquatic environment not expected due to rapid photolysis.

Section 13 - Disposal Considerations

Disposal Methods:

[250mL and 1L]: Dispose of empty containers by wrapping in paper and putting in garbage.

[5L and 10L]: Triple or (preferably) pressure rinse into the medicated water / dip/ drench etc. Do not dispose of undiluted chemicals on-site. Return clean container for recycling where this is an option or for disposal at a landfill authorised to accept that waste. If neither of these options are available, bury the container below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, vegetation and roots. Empty containers should not be burned.

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Section 14 - Transport Information

No special transport conditions are necessary unless required by other regulations.

Dangerous Goods Class and Subsidiary Risk: None allocated.

Section 15 - Regulatory Information

Poisons Schedule: S4

APVMA Approval Number: 69566

Approved Pack Sizes: 250mL, 1L, 2.5L, 5L, 10L and 15L

For more information please refer to the APVMA approved product label

Section 16 - Other Information

Abbey Animal Health Pty Ltd

Telephone Number: 02 6452 4020

Facsimile Number: 02 9475 0775

Emergency Number: Australian Poisons Information Centre: 13 11 26 (24 Hour service).

This Material Safety Data Sheet (MSDS) 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 MSDS 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.