

## MATERIAL SAFETY DATA SHEET

**PRODUCT:** TRAMISOL ORAL/TRAMISOL CONCENTRATE  
**REG. NO. (Act 36/1947):** G0805/G0806  
**REGISTRATION HOLDER:** Cooper Veterinary Products (Pty) Ltd  
**DISTRIBUTED BY:** Afrivet Business Management (Pty) Ltd  
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### 2. COMPOSITION/INFORMATION OF INGREDIENTS

| Chemical name         | CAS No.    | %     | Symbol | R-Phrases |
|-----------------------|------------|-------|--------|-----------|
| <b>Tramisol Oral</b>  |            |       |        |           |
| Levamisol HCL         | 16595-80-5 | 2,5 % | T      | R25       |
| <b>Tramisol Conc.</b> |            |       |        |           |
| Levamisol HCL         | 16595-80-5 | 25 %  | T      | R25       |

### 3. HAZARD IDENTIFICATION

Physical/chemical hazards: Not applicable  
Human health hazards: Harmful if swallowed.

### 4. FIRST-AID MEASURES

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.  
Ingestion: DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a doctor immediately. Loosen tight clothing e.g. collar, tie, belt or waistband.  
Skin contact: Wash with soap and water. Get medical attention if irritation develops.  
Eye contact: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes with eyelids open. Get medical attention.

#### Effects and symptoms

Inhalation: Slightly hazardous in case of inhalation (lung irritant). Non-sensitizer for lungs.  
Ingestion: Hazardous in case of ingestion.  
Eye contact: Slightly hazardous in case of eye contact (irritant).  
Aggravating conditions: Repeated or prolonged exposure is not known to aggravate medical condition.

### 5. FIRE FIGHTING MEASURES

#### Suitable extinguishing media

SMALL FIRE: Use DRY chemical powder  
LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

#### Hazardous thermal (de)composition products

These products are carbon dioxides (CO, CO<sub>2</sub>).

#### Special fire-fighting procedures

Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

#### Protection of fire-fighters

Be sure to use an approved/certified respirator or equivalent.

### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions

Splash goggles. Full suit. Vapor respirator. Boots. Gloves. Suggested protective clothing might not be sufficient, consult a specialist when handling this product.

#### Environmental precautions and clean-up methods

Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spraying water on the contaminated surface and allow to evacuate through the sanitary system.

### 7. HANDLING AND STORAGE

#### Handling

Keep locked up. Keep container dry. Do not ingest. Do not breathe gas/fumes/vapour/spray. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested seek medical advice immediately and show the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents.

## Storage

Keep container tightly closed and in a cool, well ventilated area.

## 8. EXPOSURE CONTROL / PERSONAL PROTECTION

### Engineering methods

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below the threshold limit. Ensure that eyewash stations and safety showers are proximal to the work-station location.

### Hygiene measures

Wash hands, forearms and face thoroughly after handling compounds and before eating, smoking, using lavatory and at the end of the day.

### Occupational exposure limits

#### Ingredient name

Levamisol HCL

Trade secret

#### Occupational exposure limits

ACGIH TLV (United States, 1997).

TWA 2 mg/m<sup>3</sup> 1 times/shift. Form: Dust.

### Personal protective equipment

Respiratory system:

Vapor respirator when ventilation is inadequate.

Skin and body:

Lab coat.

Hands:

Chemical resistant gloves.

Eyes:

Safety glasses.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:

Liquid

Colour:

Light

Odour:

Slight

Boiling point:

The lowest known value is 100 °C (212 °F) (Water). Weighted average: 107,22 °C (225 °F)

Melting point:

May start to solidify at 0 °C (32 °F) based on data for: Water.

Density:

The only known value is 1 g/cm<sup>3</sup> (Water).

Solubility:

Easily soluble in cold/hot water, methanol, acetone.

Insoluble in diethyl ether, n-octanol.

Octanol/Water

partition coefficient:

The product is more soluble in water

pH:

5,5 (acidic)

Flash point:

Not available.

Explosive properties:

Risk of explosion of the product in the presence of mechanical impact/static charge: Not available.

## 10. STABILITY AND REACTIVITY

Stability:

The product is stable.

Materials to avoid:

Reactive with oxidizing agents.

## 11. TOXICOLOGICAL INFORMATION

Acute toxicity: Acute oral toxicity (LD50): 6 730 mg/kg (rat)

Chronic toxicity: Repeated or prolonged exposure is not known to aggravate medical condition.

## 12. ECOLOGICAL INFORMATION

Ecotoxicity:

Not available.

## 13. DISPOSAL CONSIDERATION

### Methods of disposal

Waste must be disposed of in accordance with local environmental control regulations.

## 14. TRANSPORT INFORMATION

### International transport regulations

## 15. REGULATORY INFORMATION

Classification:

Harmful

Risk Phrases:

R22 – Harmful if swallowed.

Safety Phrases:

S2 – Keep out of reach of children

S46 – If swallowed, seek medical advice immediately and show this container label

Contains:

Levamisole HCL

## 16. OTHER INFORMATION

**Disclaimer.** The information of this sheet corresponds to the actual level of our knowledge. This information is not a product specification and cannot be a base for contractual use. No responsibility is accepted for errors or omissions or the consequences thereof. This information applies to the product as such. In case of new formulations or mixes, it is necessary to ascertain whether a new danger may occur. It is the responsibility of persons in receipt of this MSDS to ensure that all people who may use, handle, dispose or in any way come in contact with the product understands this information.