

# Safety Data Sheet

## Duo Low Dose

Created: 24 November 2017

### Section 1: SUBSTANCE IDENTIFICATION AND SUPPLIER

<b>Product Name:</b>	<b>Duo Low Dose</b>
<b>Recommended Use:</b>	Oral drench for the treatment and control of internal parasites in sheep and cattle.
<b>Company Identification:</b>	Ravensdown Limited
<b>Address:</b>	292 Main South Road Hornby Christchurch
<b>Customer Centre:</b>	0800 100 123
<b>National Poisons Information Centre:</b>	0800 POISON (0800 764 766)
<b>Emergency Telephone Number:</b>	0800 CHEMCALL (0800 243 622) (24hr) (Emergencies Only)
<b>Transport Emergency:</b>	111 Fire and Police

### Section 2: HAZARD IDENTIFICATION

**Hazard Classifications:** 6.1D, 6.4A, 6.5B, 6.6B, 6.8B, 6.8C, 6.9B, 9.1A, 9.2C, 9.3C, 9.4A  
**Priority Identifiers:** WARNING



**Secondary Identifiers:**

- 6.1D = Harmful if swallowed
- 6.4A = Causes serious eye damage
- 6.5B = May cause an allergic skin reaction
- 6.6B = Suspected of causing genetic defects
- 6.8B = Suspected of damaging fertility or the unborn child
- 6.8C = May cause harm to breast-fed children
- 6.9B = May cause damage to liver, nervous system, cardiovascular system, blood and haematopoietic system from repeated oral exposure
- 9.1A = Very toxic to aquatic life with long lasting effects
- 9.2C = Harmful to the soil environment
- 9.3C = Harmful to terrestrial vertebrates
- 9.4A = Very toxic to terrestrial invertebrates

### Section 3: COMPOSITION INFORMATION

INGREDIENT	CAS No.	CONTENT
Abamectin	71751-41-2	0.2%
Levamisole HCL	16595-80-5	8.0%
EDTA Cobalt	15137-09-4	<10%
Sodium Selenate	13410-01-0	<1%
Citric Acid	77-92-9	<10%

### Section 4: FIRST AID MEASURES

**General Information:** Consult the National Poisons Centre on 0800 POISON (0800 764 766) or a doctor immediately in every case of suspected poisoning. IF medical advice is needed, have product container or label at hand.

<b>Inhalation:</b>	Remove patient to fresh air. Lay down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Seek medical assistance immediately.
<b>Ingestion:</b>	If swallowed DO NOT induce vomiting. Rinse mouth. For advice, contact the National Poisons Centre on 0800 POISON (0800 764 766). Seek medical assistance immediately advising name of product.
<b>Skin Contact:</b>	Remove contaminated clothing and wash affected area thoroughly with soap and water. If a large area is affected seek medical assistance. If skin irritation or rash occurs, get medical advice.
<b>Eye Contact:</b>	If splashed in eyes flush with plenty of water for several minutes, holding eyelids open if necessary. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice.

## Section 5: FIRE FIGHTING MEASURES

<b>Flammability:</b>	Not classified as flammable
<b>Hazardous Combustion Products:</b>	If involved in a fire, may evolve carbon monoxide
<b>Extinguishing Media:</b>	Water fog, foam, carbon dioxide or dry chemical
<b>Protective Equipment:</b>	Full protective clothing and self-contained breathing apparatus
<b>HAZCHEM Code:</b>	3Z
<b>Location Certificate:</b>	Not applicable
<b>Hazardous Atmosphere Zone:</b>	Not applicable
<b>Fire Extinguishers:</b>	Not applicable

## Section 6: ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions:</b>	Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid contact with skin, eyes and clothing. See Section 8 of the SDS for Personal Protective Equipment.
<b>Spills and Disposal:</b>	Wear appropriate protective clothing. Exclude non-essential people from the area. Reposition any leaking containers so as to minimise further leakage. Contain spill, Dam and absorb spill with an absorbent material (e.g. sand, soil or absorbent granules) and place in a sealable waste container or use according to label directions. Dispose of waste safely in an approved landfill.
<b>Protective Clothing:</b>	For appropriate personal protective equipment see section 8.
<b>Environmental Precaution:</b>	Prevent from entering drains, waterways or sewers. If spill does enter waterways contact local authority.

## Section 7: HANDLING AND STORAGE

<b>Handling:</b>	<p>Keep out of reach of children.</p> <p>Read label before use.</p> <p>Do not handle until all safety precautions have been read and understood.</p> <p>Avoid contact with skin and eyes. Avoid breathing vapours. Avoid contact during pregnancy/while nursing.</p> <p>Do not eat, drink or smoke when using this product.</p> <p>Wear protective gloves/protective clothing/eye protection/face protection</p> <p>Wash skin thoroughly after handling.</p> <p>Contaminated work clothing should not be allowed out of the workplace.</p> <p><b>Certified Handler:</b> Not required.</p> <p><b>Tracking:</b> Not required.</p>
<b>Storage:</b>	<p><b>Record Keeping:</b> Records of use must be kept.</p> <p>Store in a cool dry place at room temperature (i.e. 5°C to 25°). Store in tightly closed original container in a well-ventilated area out of direct sunlight when not in use. Store away from foodstuffs, children and animals. Keep container sealed when not in use.</p> <p>This product is subject to emergency response plan, secondary containment and signage when stored in quantities of 100L or more, either alone or in aggregate with substances of the same hazard classification. For full details refer to NZS 8409 Management of Agrichemicals and HSNO Regulations (Emergency Management and Identification Regulations).</p>
<b>Other Information:</b>	Always read the label before use. See label for further information on handling and storage.

## Section 8: EXPOSURE CONTROL/PERSONAL PROTECTION

<b>Exposure Limits:</b>	No exposure limits have been assigned for this product.
<b>Protective Equipment:</b>	When opening the container and using the product wear protective clothing including waterproof gloves and eye protection, to avoid skin and eye contact.
<b>Engineering Controls:</b>	Handle in well ventilated area. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below exposure limits. Avoid inhalation of mist.
<b>Hygiene Precautions:</b>	Do not eat, drink or smoke while using this product. Remove protective clothing and wash hands and face before meals and after work. Wash protective clothing daily after work.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Pale purple liquid (aqueous suspension)
<b>Odour:</b>	No data available
<b>Odour threshold:</b>	No data available
<b>pH:</b>	No data available
<b>Melting point/freezing point:</b>	No data available
<b>Initial boiling point and boiling range:</b>	No data available
<b>Flash point:</b>	No data available
<b>Flammability:</b>	No data available
<b>Upper/lower flammability or explosive limits:</b>	No data available
<b>Vapour pressure:</b>	No data available
<b>Vapour density:</b>	No data available
<b>Relative density:</b>	1.06
<b>Solubility (ies):</b>	Miscible in water
<b>Partition coefficient: n-octanol/water:</b>	No data available
<b>Auto-ignition temperature:</b>	No data available
<b>Decomposition temperature:</b>	No data available
<b>Kinematic viscosity:</b>	No data available

## Section 10: STABILITY AND REACTIVITY

<b>Stability:</b>	When stored appropriately this product should show no significant degradation for 36 months from the date of manufacture.
<b>Hazardous Polymerisation:</b>	Hazardous polymerisation will not occur.
<b>Materials to Avoid:</b>	None known
<b>Conditions to Avoid:</b>	None known
<b>Hazardous decomposition products:</b>	No hazardous products are expected, except when heated to decomposition.

## Section 11: TOXICOLOGICAL INFORMATION

<b>Hazard Classifications:</b>	6.1D, 6.4A, 6.5B, 6.6B, 6.8B, 6.8C, 6.9B
<b>Acute toxicity:</b>	
<b>Inhalation:</b>	EDTA Cobalt: Respiratory effects seen at 2.4 mg/m <sup>3</sup> in female Guinea-pigs
<b>Oral:</b>	Abamectin: LD50 8.7 – 12.8 mg/kg Levamisole: LD50 200mg/kg/bw Sodium selenate: LD50 25mg/kg/bw Citric acid: LD50 5000mg/kg/bw
<b>Aspiration hazard:</b>	No information available
<b>Respiratory irritation:</b>	No information available
<b>Skin corrosion/irritation:</b>	Citric acid: Irritating
<b>Eye damage/ irritation:</b>	No information available.
<b>Respiratory or skin sensitisation:</b>	Cobalt: Causes respiratory tract irritation, may cause asthma and shortness of breath
<b>Mutagenicity:</b>	Levamisole: Mutagenic effects
<b>Carcinogenicity:</b>	Abamectin: No evidence carcinogenic effects
<b>Reproductive toxicity:</b>	No information available
<b>Specific organ toxicity:</b>	Sodium selenate: NOAEL 0.37mg/kg/bw/day for Hepatotoxicity/Alimentary system effects
<b>Narcotic effects:</b>	No information available

## Section 12: ECOLOGICAL INFORMATION

<b>Hazard Classifications:</b>	9.1A, 9.2C, 9.3C, 9.4A
<b>Ecotoxicity:</b>	
<b>Aquatic:</b>	Abamectin: 96hr LC50 3.6ppb (Rainbow trout) Sodium selenate: 96hr LC50 0.69mg/L (Fathead minnow)
<b>Soil:</b>	Abamectin: DT50>30days
<b>Terrestrial Vertebrates:</b>	Abamectin: 8.7–12.8mg/kg Levamisole: LD50 200mg/kg/bw
<b>Terrestrial Invertebrates:</b>	Abamectin: LD50 0.0094ug/bee
<b>Persistence/Mobility:</b>	No information available
<b>Bioaccumulation:</b>	No information available

## Section 13: DISPOSAL INFORMATION

<b>Product Disposal:</b>	Dispose of product only by using according to label or at an approved landfill.
<b>Container Disposal:</b>	Preferably dispose of the product by use. Otherwise dispose of product and packaging at an approved landfill or other approved facility. Crush and bury in an approved landfill if an approved recycling system is not available. Do not burn. Do NOT use container for any other purpose.

## Section 14: TRANSPORT INFORMATION

<b>UN Number:</b>	3082
<b>Proper Shipping Name:</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Abamectin)
<b>DG Class:</b>	9
<b>Packing Group:</b>	III
<b>Environmental hazards:</b>	Marine pollutant
<b>Special precautions when transporting the substance:</b>	Avoid release to the environment.



## Section 15: REGULATORY INFORMATION

<b>ACVM:</b>	Registered pursuant to the ACVM Act 1997, A011503 See <a href="http://www.foodsafety.govt.nz">www.foodsafety.govt.nz</a> for registration conditions
<b>EPA:</b>	Approved pursuant to the HSNO Act 1996, Code: HSR007899 See <a href="http://www.epa.govt.nz">www.epa.govt.nz</a> for approval controls.

## Section 16: OTHER INFORMATION

The data in this SDS relates only to the specific material designated herein and does not relate to use in combination with any other material. The information is provided in good faith based on current knowledge and experience. No warranty with regard to the product properties is expressed or implied.