

Safety Data Sheet

according to WHS Regulations

Printing date 22.09.2020

Revision: 22.09.2020

1 Identification

Product Name: TRIO COMBINATION DRENCH FOR SHEEP

Other Means of Identification: Mixture

Recommended Use of the Chemical and Restriction on Use:

Control and treatment of internal parasites of sheep and provide selenium and cobalt supplement.

Details of Manufacturer or Importer:

Nutrien Ag Solutions Limited
Level 5, Building A, 26 Talavera Road,
Macquarie Park NSW 2113

Phone Number: (02) 9889 5400

Emergency telephone number: 1800 44 88 92

2 Hazard(s) Identification

Hazardous Nature:

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)



Acute Toxicity (Oral) 4 H302 Harmful if swallowed.

Acute Toxicity (Dermal) 4 H312 Harmful in contact with skin.

Signal Word Warning

Hazard Statements

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

Precautionary Statements

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves / protective clothing.

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P302+P352 IF ON SKIN: Wash with plenty of water.

P321 Specific treatment (see on this label).

P330 Rinse mouth.

P362+P364 Take off contaminated clothing and wash it before reuse.

P501 Dispose of contents/container in accordance with local/regional/national regulations.

3 Composition and Information on Ingredients

Chemical Characterization: Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Hazardous Components:

| | | |
|-----------------|--|-------|
| CAS: 16595-80-5 | Levamisole hydrochloride | 3.39% |
| | Acute Toxicity (Oral) 3, H301; Acute Toxicity (Dermal) 2, H310; Skin Corrosion/Irritation 2, H315; Serious Eye Damage/Irritation 2A, H319 | |
| CAS: 71751-41-2 | Abamectin (combination of avermectin B1a and avermectin B1b) (ISO) | 0.1% |
| | Acute Toxicity (Oral) 1, H300; Acute Toxicity (Inhalation) 1, H330; Toxic To Reproduction 2, H361; STOT RE 1, H372; Aquatic Acute 1, H400; Aquatic Chronic 1, H410 | |

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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 if breathing problems develop.

Skin Contact:

In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Seek medical attention if symptoms occur.

Eye Contact:

In case of eye contact, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention.

Ingestion:

If swallowed, do not induce vomiting. Wash mouth with water. Do not give anything by mouth to an unconscious person. Seek immediate medical attention.

Symptoms Caused by Exposure:

Inhalation: May cause mild respiratory irritation.

Skin Contact: Harmful in contact with skin. May cause mild skin irritation.

Eye Contact: May cause mild eye irritation.

Ingestion: Harmful if swallowed. May cause irritation to mucous membranes.

5 Fire Fighting Measures

Suitable Extinguishing Media: Use fire extinguishing methods suitable to surrounding conditions.

Specific Hazards Arising from the Chemical:

Hazardous combustion products include oxides of carbon and nitrogen, other nitrogen compounds, hydrogen cyanide, hydrogen chloride, other chlorine compounds, sodium compounds, other metal compounds, smoke and water.

This product is not flammable, but may burn or decompose in a fire.

Containers close to fire should be removed if safe to do so. Use water spray to cool fire exposed containers.

Special Protective Equipment and Precautions for Fire Fighters:

When fighting a major fire wear self-contained breathing apparatus and protective equipment.

6 Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures:

Wear an approved respiratory protection, chemical resistant gloves, protective clothing and safety boots.

Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation.

Environmental Precautions:

In the event of a major spill, prevent spillage from entering drains or water courses.

Methods and Materials for Containment and Cleaning Up:

Stop leak if safe to do so and absorb spill with sand, earth, vermiculite or some other absorbent material.

Collect the spilled material and place into a suitable container for disposal. Wash area after spills.

7 Handling and Storage

Precautions for Safe Handling:

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours.

Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

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Conditions for Safe Storage:

Store in a cool, dry and well ventilated area. Keep in original container tightly closed when not in use. Protect from direct sunlight.

8 Exposure Controls and Personal Protection

Exposure Standards:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Engineering Controls:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapour below occupational exposure standards.

Respiratory Protection:

Respiratory protection is not required under normal use conditions.

Use an approved vapour respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapour, inadequate ventilation, development of respiratory tract irritation) and engineering controls are not feasible. See Australian Standards AS/NZS 1715 and 1716 for more information.

Skin Protection:

Rubber gloves. See Australian/New Zealand Standard AS/NZS 2161 for more information.

When selecting gloves for use against certain chemicals, the degradation resistance, permeation rate and permeation breakthrough time should be considered.

Occupational protective clothing (depending on conditions in which it has to be used, in particular as regards the period for which it is worn, which shall be determined on the basis of the seriousness of the risk, the frequency of exposure to the risk, the characteristics of the workstation of each worker and the performance of the protective clothing). See Australian/New Zealand Standard AS/NZS 4501 for more information.

Eye and Face Protection:

Eye and face protectors for protection against splashing materials or liquids. See Australian/New Zealand Standard AS/NZS 1337 for more information.

9 Physical and Chemical Properties

Appearance:

| | |
|---|----------------------------------|
| Form: | Liquid |
| Colour: | Light pink |
| Odour: | Mild Characteristic |
| Odour Threshold: | No information available |
| pH-Value: | 3.5-4.5 |
| Melting point/freezing point: | ~0 °C |
| Initial Boiling Point/Boiling Range: | ~100 °C |
| Flash Point: | Not applicable |
| Flammability: | Non combustible. |
| Auto-ignition Temperature: | Not applicable |
| Decomposition Temperature: | No information available |
| Explosion Limits: | |
| Lower: | Not applicable |
| Upper: | Not applicable |
| Vapour Pressure at 20 °C: | 2.37 hPa (water vapour pressure) |
| Relative Density at 20 °C: | 0.9-1.1 |
| Vapour Density: | As for water. |
| Evaporation Rate: | As for water. |
| Solubility in Water: | Completely soluble |

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Partition Coefficient (n-octanol/water): No information available**Viscosity:** Viscous

10 Stability and Reactivity

Possibility of Hazardous Reactions: Hazardous polymerisation will not occur.**Chemical Stability:** Stable at ambient temperature and under normal conditions of use.**Conditions to Avoid:** Direct sunlight.**Incompatible Materials:** No further relevant information available.**Hazardous Decomposition Products:**

Oxides of carbon and nitrogen, other nitrogen compounds, hydrogen cyanide, hydrogen chloride, other chlorine compounds, sodium compounds, other metal compounds, smoke and water.

11 Toxicological Information

Toxicity:**LD50/LC50 Values Relevant for Classification:****CAS: 71751-41-2 Abamectin (combination of avermectin B1a and avermectin B1b) (ISO)**

| | | |
|------------|----------|-------------------|
| Oral | LD50 | 1,230 mg/kg (rat) |
| Dermal | LD50 | >330 mg/kg (rat) |
| Inhalation | LC50/4 h | >4.178 mg/l (rat) |

Acute Health Effects**Inhalation:** May cause mild respiratory irritation.**Skin:** Harmful in contact with skin. May cause mild skin irritation.**Eye:** May cause mild eye irritation.**Ingestion:** Harmful if swallowed. May cause irritation to mucous membranes.**Skin Corrosion / Irritation:** Based on classification principles, the classification criteria are not met.**Serious Eye Damage / Irritation:** Based on classification principles, the classification criteria are not met.**Respiratory or Skin Sensitisation:** Based on classification principles, the classification criteria are not met.**Germ Cell Mutagenicity:** Based on classification principles, the classification criteria are not met.**Carcinogenicity:**

Selenium and selenium compounds are classified by IARC as Group 3 - Not classifiable as to its carcinogenicity to humans.

Reproductive Toxicity: Based on classification principles, the classification criteria are not met.**Specific Target Organ Toxicity (STOT) - Single Exposure:**

Based on classification principles, the classification criteria are not met.

Specific Target Organ Toxicity (STOT) - Repeated Exposure:

May cause damage to organs through prolonged or repeated exposure.

Aspiration Hazard: Based on classification principles, the classification criteria are not met.**Chronic Health Effects:** May cause tremors, lethargy, weight loss, and pupil dilation in laboratory animals.**Existing Conditions Aggravated by Exposure:** No information available**Additional toxicological information:**

The Australian Acceptable Daily Intake (ADI) for abamectin (sum of abamectin + 8,9-Z isomer) for a human is 0.001 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOAEL of 0.12 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the

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most sensitive species.

The ADI for levamisole for a human is 0.003 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOAEL of 6 mg/kg/day.

The ADI for oxfendazole for a human is 0.005 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOAEL of 0.5 mg/kg/day.

(Ref: Australian Pesticides and Veterinary Medicines Authority, 'Acceptable Daily Intakes for Agricultural and Veterinary Chemicals', 2020).

Symptoms of poisoning observed in laboratory animals include pupil dilation, vomiting, convulsions and/or tremors, and coma. Abamectin acts on insects by interfering with the nervous system. At very high doses, it can affect mammals, causing symptoms of nervous system depression such as incoordination, tremors, lethargy, excitation, and pupil dilation. Very high doses have caused death from respiratory failure. Abamectin is not readily absorbed through skin. Abamectin does not cause allergic skin reactions.

12 Ecological Information

Ecotoxicity:

Abamectin is practically nontoxic to birds and highly toxic to bees.

LD50 >2000 mg/kg (bobwhite quail)

LC50 (dietary) 3102 ppm (bobwhite quail)

LD50 0.009 µg/bee

LC50/24 h (contact) 0.002 µg/bee

Levamisole and oxfendazole are not toxic to birds, fish and honey bees.

Aquatic toxicity:

CAS: 71751-41-2 Abamectin (combination of avermectin B1a and avermectin B1b) (ISO)

EC50/96 h 7.3096 mg/l (algae)

Persistence and Degradability:

Abamectin rapidly degrades in water. Its half-life in pond sediment is 2 to 4 weeks. Abamectin is rapidly degraded in soil, with half-lives of 8 hours to 1 day in sunlight and up to 2 months in dark conditions.

Bioaccumulative Potential: Bioaccumulation is not expected to occur.

Mobility in Soil: This product is immobile in soil and is not expected to leach into groundwater.

Other adverse effects: No information available

13 Disposal Considerations

Disposal Methods and Containers: Dispose according to applicable local and state government regulations.

Special Precautions for Landfill or Incineration:

Please consult your state Land Waste Management Authority for more information.

14 Transport Information

UN Number

ADG

Not subject to the ADG Code when transported in Australia by Road or Rail in packages 500kg(L) or less; or IBCs (refer to SP AU01).

IMDG, IATA

UN3082

Proper Shipping Name

ADG

Not regulated

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| | |
|---|--|
| IMDG | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (abamectin (combination of avermectin B1a and avermectin B1b) (ISO)), MARINE POLLUTANT |
| IATA | Environmentally hazardous substance, liquid, N.O.S. (abamectin (combination of avermectin B1a and avermectin B1b) (ISO)) |
| Dangerous Goods Class | |
| ADG Class: | Not regulated |
| IMDG Class: | 9 Miscellaneous dangerous substances and articles. |
| Packing Group: | |
| ADG | Not regulated |
| IMDG, IATA | III |
| Marine pollutant: | |
| | Yes |
| | Symbol (fish and tree) |
| EMS Number: | |
| | F-A,S-F |
| Hazchem Code: | |
| | •3Z |
| Special Provisions: | |
| | 274, 331,335, 375, AU01 |
| Limited Quantities: | |
| | 5L |
| Packagings & IBCs - Packing Instruction: | |
| | P001, IBC03, LP01 |
| Packagings & IBCs - Special Packing Provisions: PP1 | |
| Portable Tanks & Bulk Containers - Instructions: T4 | |
| Portable Tanks & Bulk Containers - Special Provisions: | |
| | TP1, TP29 |

15 Regulatory Information

Australian Inventory of Chemical Substances:

| | |
|-----------------|---|
| CAS: 16595-80-5 | Levamisole hydrochloride |
| CAS: 53716-50-0 | Oxfendazole |
| CAS: 15137-09-4 | Cobaltate(2-), [[N,N'-1,2-ethanediylbis[N-(carboxymethyl)glycinato]](4-)-N,N',O,O',ON,ON']-, disodium, (OC-6-21)- |
| CAS: 13410-01-0 | Sodium selenate |
| CAS: 71751-41-2 | Abamectin (combination of avermectin B1a and avermectin B1b) (ISO) |

Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) - Poison Schedule:

Poisons Schedule: 6

16 Other Information

Date of Preparation or Last Revision: 22.09.2020**Prepared by:** MSDS.COM.AU Pty Ltd

www.msds.com.au

Abbreviations and acronyms:

ADG: Australian Dangerous Goods
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent

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IARC: International Agency for Research on Cancer

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)

Acute Toxicity (Oral) 1: Acute toxicity - oral – Category 1

Acute Toxicity (Oral) 3: Acute toxicity - oral – Category 3

Acute Toxicity (Oral) 4: Acute toxicity - oral – Category 4

Acute Toxicity (Dermal) 2: Acute toxicity - dermal – Category 2

Skin Corrosion/Irritation 2: Skin corrosion/irritation – Category 2

Serious Eye Damage/Irritation 2A: Serious eye damage/eye irritation – Category 2A

Toxic To Reproduction 2: Reproductive toxicity – Category 2

STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment, short-term (Acute). Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment, long-term (Chronic). Category 1

Data altered compared to the previous version:

Section 1: Details of Manufacturer or Importer.

Section 1: Phone Number.

Section 1: Emergency telephone Number.

Section 2: Hazardous Nature.

Section 2: Hazard Statements.

Section 2: Precautionary Statements.

Section 4: Symptoms Caused by Exposure.

Section 5: Special Hazards Arising from the Chemical.

Section 11: Toxicity.

Section 11: Acute Health Effects.

Section 11: Carcinogenicity.

Section 11: Reproductive Toxicity.

Section 11: Additional Toxicological Information.

Section 12: Aquatic Toxicity.

Section 14: Hazchem Code.

Section 14: Special Provisions.

Disclaimer

This SDS is prepared in accord with the Safe Work Australia document “Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - May 2018”

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