



# Safety Data Sheet

according to WHS Regulations

Printing date 29.05.2017

Revision: 29.05.2017

## 1 Identification

**Product Name: PASTORAL AG MOXIDECTIN POUR-ON FOR CATTLE**

**Other Means of Identification:** Mixture

**Recommended Use of the Chemical and Restriction on Use:**

Animal pour-on control of internal and external parasites of cattle.

**Details of Manufacturer or Importer:**

Titan Ag Pty Ltd  
15/16 Princes Street  
Newport NSW 2106

**Phone Number:** 02 9999 6655

**Emergency telephone number:** 02 9999 6655

## 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)



health hazard

Aspiration Hazard 1 H304 May be fatal if swallowed and enters airways.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

**Signal Word** Danger

**Hazard Statements**

H304 May be fatal if swallowed and enters airways.

H412 Harmful to aquatic life with long lasting effects.

**Precautionary Statements**

P273 Avoid release to the environment.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P331 Do NOT induce vomiting.

P405 Store locked up.

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:**

64742-95-6	Solvent naphtha (petroleum), light arom. ⚠️ Aspiration Hazard 1, H304; Flammable Liquids 4, H227	10-20%
9003-27-4	Polyisobutylene	1-10%
74775-06-7	Poly[oxy(methyl)-1,2-ethanediyl], .alpha.-(1-oxopropyl)-.omega.-(tetradecyloxy)-	1-10%
113507-06-5	Moxidectin ⚠️ Acute Toxicity (Oral) 2, H300; ⚠️ STOT RE 1, H372; ⚠️ Serious Eye Damage/Irritation 2A, H319	0.525%

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**Additional information:**

64742-95-6:

Note N (The classification and labelling shown for this substance applies to the hazardous property(ies) indicated by the hazard statement(s) in combination with the hazard class(es) and category(ies) shown. For hazard classes where the route of exposure or the nature of the effects leads to a differentiation of the classification of the hazard class, the manufacturer, importer or downstream user should consider the routes of exposure or the nature of the effects not already considered. )

Note P (The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0.1 % w/w benzene (CAS No 71-43-2).)

**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 irritation, immediately remove contaminated clothing and wash affected areas with water and soap. Seek medical attention if symptoms persist.

**Eye Contact:**

In case of eye irritation, hold eyelids open and rinse with water for 15 minutes. Seek immediate medical attention.

**Ingestion:**

If swallowed, do not induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Do not give anything by mouth to an unconscious person. Seek immediate medical attention.

**5 Fire Fighting Measures**

**Suitable Extinguishing Media:** Foam, dry chemical or carbon dioxide.

**Specific Hazards Arising from the Chemical:**

Hazardous combustion products include oxides of carbon.  
Product is combustible.

**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 appropriate respiratory protection and protective clothing. Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation. Extinguish all sources of ignition. Avoid sparks and open flames. No smoking.

**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 spill.

**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

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proximity to points of potential exposure.

**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. Keep away from strong oxidising agents. Protect containers against physical damage and check regularly for leaks.

### 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:** Ensure adequate ventilation of the working area.

**Respiratory Protection:**

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:**

PVC or 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:**

<b>Form:</b>	Liquid
<b>Colour:</b>	No information available
<b>Odour:</b>	No information available
<b>Odour Threshold:</b>	No information available
<b>pH-Value:</b>	No information available
<b>Melting point/freezing point:</b>	No information available
<b>Initial Boiling Point/Boiling Range:</b>	No information available
<b>Flash Point:</b>	No information available
<b>Flammability:</b>	Combustible
<b>Auto-ignition Temperature:</b>	No information available
<b>Decomposition Temperature:</b>	No information available
<b>Explosion Limits:</b>	
<b>Lower:</b>	No information available
<b>Upper:</b>	No information available
<b>Vapour Pressure:</b>	No information available
<b>Relative Density:</b>	,
<b>Vapour Density:</b>	No information available
<b>Evaporation Rate:</b>	No information available
<b>Solubility in Water:</b>	Immiscible
<b>Partition Coefficient (n-octanol/water):</b>	No information available

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**Viscosity:** No information available

## 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:** Strong oxidising agents, acids and bases.**Hazardous Decomposition Products:** Oxides of carbon and metal oxides.

## 11 Toxicological Information

**Toxicity:****LD<sub>50</sub>/LC<sub>50</sub> Values Relevant for Classification:****113507-06-5 Moxidectin**

Oral	LD <sub>50</sub>	106 mg/kg (rat)
Dermal	LD <sub>50</sub>	>2000 mg/kg (rabbit)

**64742-95-6 Solvent naphtha (petroleum), light arom.**

Oral	LD <sub>50</sub>	>6800 mg/kg (rat)
Dermal	LD <sub>50</sub>	>3400 mg/kg (rab)
Inhalation	LC <sub>50</sub> /4 h	>10.2 mg/l (rat)

**Acute Health Effects****Inhalation:** No adverse health effects expected.**Skin:** No adverse health effects expected.**Eye:** No adverse health effects expected.**Ingestion:** Accidental ingestion of the material may be damaging to the health.**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:** This product does NOT contain any IARC listed chemicals.**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:** May be fatal if swallowed and enters airways.**Chronic Health Effects:**

Repeated exposure may cause skin cracking, flaking or drying following normal handling and use.

**Existing Conditions Aggravated by Exposure:** No information available**Additional toxicological information:**

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The Australian Acceptable Daily Intake (ADI) for moxidectin for a human is 0.01 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 1 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species. (Ref: Comm. Dept. of Health and Ageing Office of Chemical Safety, 'ADI List', June 2014).

## 12 Ecological Information

**Ecotoxicity:**

Moxidectin:

LD50 (21 day oral) 365 mg/kg (mallard)

LD50 (14 day oral) 283 mg/kg (chicken)

LC50/ 28 day 37.2 mg/kg (earthworm)

**Aquatic toxicity:****113507-06-5 Moxidectin**EC<sub>50</sub>/48 h 0.03 ppb (daphnia)EC<sub>50</sub>/72 h >87 ppb (green algae)LC<sub>50</sub>/96 h 0.16 ppb (rainbow trout)

0.62 ppb (bluegill)

**Persistence and Degradability:** No information available**Bioaccumulative Potential:** No information available**Mobility in Soil:** No information available**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** Not regulated**Proper Shipping Name** Not regulated**Dangerous Goods Class** Not regulated**Packing Group:** Not regulated**Marine pollutant:** No

## 15 Regulatory information

**Australian Inventory of Chemical Substances:**

113507-06-5 Moxidectin

9003-27-4 Polyisobutylene

64742-95-6 Solvent naphtha (petroleum), light arom.

74775-06-7 Poly[oxy(methyl)-1,2-ethanediyl], .alpha.-(1-oxopropyl)-.omega.-(tetradecyloxy)-

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

Poisons Schedule: 5

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## 16 Other information

**Date of Preparation or Last Revision:** 29.05.2017**Prepared by:** MSDS.COM.AU Pty Ltd[www.msds.com.au](http://www.msds.com.au)**Abbreviations and acronyms:**

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC<sub>50</sub>: Lethal concentration, 50 percentLD<sub>50</sub>: Lethal dose, 50 percent

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)

Flammable Liquids 4: Flammable liquids – Category 4

Acute Toxicity (Oral) 2: Acute toxicity – Category 2

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

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

Aspiration Hazard 1: Aspiration hazard – Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment, long-term (Chronic). Category 3

**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 - February 2016”

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