

Section 1 - Identification of the Substance/Mixture and Supplier

Zoetis Australia Pty Ltd

ABN 94 156 476 425
Level 6, 5 Rider Blvd
Rhodes NSW 2138 AUSTRALIA
Tel: 1800 814 883
Fax: (02) 8876 0444
Email: australia.animalhealth@zoetis.com



Product Identifier: Cygro® 10G

APVMA Approval No: 67592

Other names: Cygro 10G (Maduramicin Ammonium Premix), Cygro 10G 1% Premix

Chemical family: Mixture

Recommended Use: For use only in broiler chicken feeds for the prevention and control of coccidiosis caused by *Eimeria acervulina*, *E. brunetti*, *E. maxima*, *E. mivati*, *E. necatrix* and *E. tenella*

Restrictions on use: Not for human use. For veterinary use only

Emergency Phone: 1800 814 883 (all hours)

Section 2 - Hazards Identification

Appearance: White to grey powder

Classification of the Substance or Mixture

GHS - Classification

Acute Oral Toxicity: Category 5
Acute Toxicity - Dusts and Mists: Category 4

Label Elements

Signal Word: Warning

Hazard Statements: H303 - May be harmful if swallowed
H332 - Harmful if inhaled
May form combustible dust concentrations in air

Precautionary Statements: P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
P271 - Use only outdoors or in a well-ventilated area
P312 - Call a POISON CENTRE/doctor/physician if you feel unwell
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing



Other Hazards

Short Term: Mild eye irritant in experimental animals. Mild skin irritant in experimental animals

Long Term: may have the potential to produce effects on the developing fetus.

Australian Hazard Classification (NOHSC): Hazardous Substance. Non-Dangerous Goods.

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Note:

This document has been prepared in accordance with standards for workplace safety, which requires the inclusion of all known hazards of the product or its ingredients regardless of the potential risk. The precautionary statements and warning included may not apply in all cases. Your needs may vary depending upon the potential for exposure in your workplace.

Section 3 - Composition/Information on Ingredients

Hazardous

Ingredients	CAS No	Conc,%	GHS Classification
Maduramicin Ammonium	84878-61-5	1	Acute Tox. 2 (H300) Acute Tox. 2 (H310) Eye Irrit. 2 (H319) Skin Irrit. 3 (H316) Aq. Acute 2 (H401) Aq. Chronic 2 (H411)

Ingredients	CAS No	Conc,%	GHS Classification
Carboxymethylcellulose sodium	9004-32-4	*	Not Listed
Calcium sulfate, dehydrate	10101-41-4	*	Not Listed

Additional Information:

* Proprietary

Ingredient(s) indicated as hazardous have been assessed under standards for workplace safety. In accordance with 29 CFR 1910.1200, the exact percentage composition of this mixture has been withheld as a trade secret.

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non-hazardous ingredients are also possible.

Section 4 - First Aid Measures

Description of First Aid Measures

Eye Contact:	Flush with water while holding eyelids open for at least 15 minutes. Seek medical attention immediately.
Skin Contact:	Remove contaminated clothing. Flush area with large amounts of water. Use soap. Seek medical attention.
Ingestion:	Never give anything by mouth to an unconscious person. Wash out mouth with water. Do not induce vomiting unless directed by medical personnel. Seek medical attention immediately.
Inhalation:	Remove to fresh air and keep patient at rest. Seek medical attention immediately.

Most Important Symptoms and Effects, Both Acute and Delayed

Symptoms and Effects of Exposure: For information on potential signs and symptoms of exposure, See Section 2 – Hazards Identification and/or Section 11 - Toxicological Information.

Medical Conditions Aggravated by Exposure: Breathing dust may worsen asthma symptoms.

Indication of the Immediate Medical Attention and Special Treatment Needed

Notes to Physician: None

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Section 5 - Fire Fighting Measures

Extinguishing Media: Extinguish fires with CO₂, extinguishing powder, foam, or water.

Special Hazards Arising from the Substance or Mixture

Hazardous Combustion Products: Formation of toxic gases is possible during heating or fire.

Fire / Explosion Hazards: Dust can form an explosive mixture in air. Fine particles (such as dust and mists) may fuel fires/explosions.

Advice for Fire-Fighters

During all firefighting activities, wear appropriate protective equipment, including self-contained breathing apparatus.

Section 6 - Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

Avoid dust formation. Personnel involved in clean-up should wear appropriate personal protective equipment (see Section 8). Minimize exposure.

Environmental Precautions

Place waste in an appropriately labeled, sealed container for disposal. Care should be taken to avoid environmental release.

Methods and Material for Containment and Cleaning Up

Measures for Cleaning / Collecting: Contain the source of the spill if it is safe to do so. Avoid generating airborne dust. Eliminate possible ignition sources (e.g., heat, sparks, flame, impact, friction, electricity), and follow appropriate grounding procedures. Collect spilled material by a method that controls dust generation. Use non-combustible absorbent material to wipe up spill and place in a sealed container for disposal. Clean contaminated surface thoroughly.

Additional Consideration for Large Spills: Non-essential personnel should be evacuated from affected area. Report emergency situations immediately. Clean up operations should only be undertaken by trained personnel.

Section 7 - Handling and Storage

Precautions for Safe Handling

Eliminate possible ignition sources (e.g., heat, sparks, flame, impact, friction, electricity), and follow appropriate grounding and bonding procedures. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Minimize dust generation and accumulation. Use with adequate ventilation. When handling, use appropriate personal protective equipment (see Section 8). Wash thoroughly after handling. Releases to the environment should be avoided. Review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure or environmental releases. Potential points of process emissions of this material to the atmosphere should be controlled with dust collectors, HEPA filtration systems or other equivalent controls.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions: Store at room temperature in properly labeled containers. Keep away from heat, sparks and flames.

Specific end use(s): No data available

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Section 8 - Exposure Controls and Personal Protection

Control Parameters

Calcium sulfate, dehydrate

ACGIH Threshold Limit Value (TWA) 10 mg/m³

The purpose of the Occupational Exposure Band (OEB) classification system is to separate substances into different Hazard categories when the available data are sufficient to do so, but inadequate to establish an Occupational Exposure Limit (OEL). The OEB given is based upon an analysis of all currently available data; as such, this value may be subject to revision when new information becomes available.

Maduramicin Ammonium

Zoetis OEB

OEB 3 - Skin, Severe Eye Irritant (control exposure to the range of 10ug/m³ to < 100ug/m³, provide additional precautions to protect from skin contact)

Exposure Controls

Engineering Controls: Engineering controls should be used as the primary means to control exposures. Keep air contamination levels below the exposure limits or within the OEB range listed above in this section.

Personal Protective Equipment: Refer to applicable national standards and regulations in the selection and use of personal protective equipment (PPE).

Hands: Impervious gloves are recommended if skin contact with drug product is possible and for bulk processing operations.

Eyes: Wear safety glasses or goggles if eye contact is possible.

Skin: Impervious protective clothing is recommended if skin contact with drug product is possible and for bulk processing operations.

Respiratory protection: If airborne exposures are within or exceed the Occupational Exposure Band (OEB) range, wear an appropriate respirator with a protection factor sufficient to control exposures to the bottom of the OEB range. If the applicable Occupational Exposure Limit (OEL) is exceeded, wear an appropriate respirator with a protection factor sufficient to control exposures to below the OEL.

Section 9 - Physical and Chemical Properties:

Physical State:	Powder	Color:	White to gray
Odor:	No data available	Odor Threshold:	No data available
Molecular Formula:	Mixture	Molecular Weight:	Mixture

Solvent Solubility:	No data available
Water Solubility:	36 mg/L (pH 7)
pH:	No data available
Melting/Freezing Point (°C):	No data available
Boiling Point (°C):	No data available
Partition Coefficient: (Method, pH, Endpoint, Value)	
Decomposition Temperature (°C):	No data available

Evaporation Rate (Gram/s):	No data available
Vapor Pressure (kPa):	No data available
Vapor Density (g/ml):	No data available
Relative Density:	No data available
Viscosity:	No data available

Flammability:

Autoignition Temperature (Solid) (°C): No data available

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Flammability (Solids):	No data available
Flash Point (Liquid) (°C):	No data available
Upper Explosive Limits (Liquid) (% by Vol.):	No data available
Lower Explosive Limits (Liquid) (% by Vol.):	No data available

Section 10 - Stability and Reactivity

Reactivity:	No data available
Chemical Stability:	Stable under normal conditions of use.
Possibility of Hazardous Reactions	
Oxidizing Properties:	No data available
Conditions to Avoid:	Keep away from heat, spark, flames and all other sources of ignition. Avoid dispersion as a dust cloud. Dust may form explosive mixture in air. Fine particles (such as dusts, mists and vapors) may fuel fires/explosions.
Incompatible Materials:	As a precautionary measure, keep away from strong oxidizers
Hazardous Decomposition Products:	No data available

Section 11 - Toxicological Information

Information on Toxicological Effects

General Information:	Toxicological properties of the formulation have not been fully investigated. The information in this section describes the potential hazards of the individual ingredients and the formulation. Routes of exposure: inhalation, eye contact, skin contact
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Acute Toxicity: (Species, Route, End Point, Dose)

Maduramicin Ammonium

Rat	Oral	LD50	35 mg/kg
Rat	Dermal	LD50	71 mg/kg

Carboxymethylcellulose sodium

Mouse	Oral	LD50	> 27,000 mg/kg
Rat	Oral	LD50	27,000 mg/kg
Rabbit	Dermal	LD50	> 2000 mg/kg

Acute Toxicity Comments:	A greater than symbol (>) indicates that the toxicity endpoint being tested was not achievable at the highest dose used in the test.
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Irritation / Sensitization: (Study Type, Species, Severity)

Maduramicin Ammonium

Eye Irritation	Rabbit	Irritant
Skin Irritation	Rabbit	Irritant

Irritation / Sensitization Comments:	Slight, transient conjunctival irritation was seen in experimental animals.
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Skin Irritation / Sensitization	Mild skin irritant in experimental animals.
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Repeated Dose Toxicity: (Duration, Species, Route, Dose, End Point, Target Organ)

Maduramicin Ammonium

28 Day(s)	Rat	Oral	>8 mg/kg/day	NOAEL	No effects at maximum dose
90 Day(s)	Rat	Oral	3 mg/kg/day	NOAEL	None identified

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28 Day(s)	Dog	Oral	12 mg/kg/day	NOAEL	None identified
1 Year(s)	Dog	Oral	0.2 mg/kg/day	NOAEL	Eyes

Carboxymethylcellulose sodium

13 Week(s)	Rat	Oral	227 g/kg	LOAEL	Liver, Kidney, Ureter, Bladder
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Reproduction & Development Toxicity: (Duration, Species, Route, Dose, End Point, Effect(s))**Maduramicin Ammonium**

2 Generation Reproductive Toxicity	Rat	Oral	1 mg/kg/day	NOAEL	Neonatal toxicity
Embryo / Fetal Development	Rat	Oral	1 mg/kg/day	NOAEL	Maternal Toxicity
Embryo / Fetal Development	Rabbit	Oral	0.2 mg/kg/day	NOAEL	No effects at maximum dose

Genetic Toxicity: (Study Type, Cell Type/Organism, Result)**Maduramicin Ammonium**

<i>In Vivo</i> Direct DNA Damage	Rat	Negative
<i>In Vitro</i> HGPRT Forward Gene Mutation Assay	Rat Hepatocyte	Negative
<i>In Vitro</i> Chromosome Aberration	Chinese Hamster Ovary (CHO) cells	Negative
<i>In Vitro</i> Chromosome Aberration	Human Lymphocytes	Negative
<i>In Vitro</i> Unscheduled DNA Synthesis	Rat Hepatocyte	Negative

Carcinogenicity: (Duration, Species, Route, Dose, End Point, Effect(s))**Maduramicin Ammonium**

2 Year(s)	Mouse	Oral	> 5 mg/kg/day	NOAEL	Not carcinogenic
2 Year(s)	Rat	Oral	0.1 mg/kg/day	NOAEL	Not carcinogenic, Thyroid

Carcinogen Status:

None of the components of this formulation are listed as a carcinogen by IARC, NTP or OSHA.

Product Level Toxicity Data**Acute toxicity**

Species	Route	End Point	Dose
Rat	Dermal	LD50	>2000 mg/kg
Rat	Inhalation	LC 50	3.16 mg/L
	Oral	Calculated ATE - 3500 mg/kg	

Irritation / Sensitization

Study Type	Species	Result
Skin Irritation	Rabbit	Slight
Eye Irritation	Rabbit	Slight
Skin Sensitization – LLNA	Mouse	Negative

Section 12 - Ecological Information**Environmental Overview:**

Environmental properties of the formulation have not been thoroughly investigated. The following information is available for the individual ingredients. Releases to the environment should be avoided.

Toxicity:**Aquatic Toxicity: (Species, Method, End Point, Duration, Result)****Maduramicin Ammonium**

<i>Daphnia magna</i> (Water Flea)	OECD	EC50	48 Hours	8.1 mg/L
<i>Oncorhynchus mykiss</i> (Rainbow Trout)	OECD	LC50	96 Hours	2.0 mg/L
<i>Pseudokirchneriella subcapitata</i> (Green Alga)	OECD	EC50	72 Hours	5.8 mg/L

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Persistence and Degradability: No data available

Bio-accumulative Potential:

Maduramicin Ammonium

Measured >2.45 Log P

Mobility in Soil: No data available

Section 13 - Disposal Considerations

Disposal: Shake and empty contents into medicated feed. Do not dispose of undiluted chemicals on site. Puncture and bury empty containers in a local authority land fill. If not 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 and product should not be burnt. Dispose of waste in accordance with all applicable local laws and regulations.

Section 14 - Transport Information

The following refers to all modes of transportation unless specified below.

Not regulated for transport under IATA, ADG or IMDG regulations.

Section 15 - Regulatory Information

Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

Carboxymethylcellulose sodium

Australia (AICS): Present

Calcium sulfate, dehydrate

Australia (AICS): Present

Poison Schedule: S5

AICS: All of the significant ingredients in this formulation are compliant with NICNAS regulations.

Section 16 - Other Information

This SDS contains only safety-related information. For other data see product literature.

Data Sources: The data contained in this SDS may have been gathered from confidential internal sources, raw material suppliers, or from the published literature.

Acronyms:

ADG Code	Australian Code for the Transport of Dangerous Goods by Road and Rail (7 th edition)
AICS	Australian Inventory of Chemical Substances
SWA	Safe Work Australia, formerly ASCC and NOHSC
CAS number	Chemical Abstracts Service Registry Number
Hazchem Code	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
IARC	International Agency for Research on Cancer
NOS	Not otherwise specified
NTP	National Toxicology Program (USA)
R-Phrase	Risk Phrase
SUSMP	Standard for the Uniform Scheduling of Medicines & Poisons
UN Number	United Nations Number

SAFETY DATA SHEET

Issued by: Zoetis Australia Pty Ltd

Phone: 1800 814 883

Poisons Information Centre: 13 11 26 from anywhere in Australia

This version issued: 1 October 2016 and is valid for 5 years from this date

Supersedes: 19 November 2015 .

Revision History:

Date of Revision	Reason
19 February 2014	New SDS.
19 November 2015	Update Zoetis Address
01 Oct 2016	Reclassification of GHS hazard and precautionary statements.

Contact Points:

Zoetis	1800 814 883
Police and Fire Brigade:	Dial 000

If ineffective:

**Dial Poisons Information Centre
(13 11 26 from anywhere in Australia)**

THIS SDS SUMMARISES OUR CURRENT AND BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION ABOUT THE PRODUCT DETAILED IN THIS SDS, AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE FOR THE RECOMMENDED USE. EACH USER OF THE PRODUCT MUST REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THEIR OWN WORKPLACE. IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT ZOETIS.

Please read all labels carefully before using product.

This SDS is prepared in accord with the SWA document "Preparation of Safety Data Sheets for Hazardous Chemicals - Code of Practice" (December 2011)

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End of Safety Data Sheet

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