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: productsupport.au@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
Section 3 - Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS No</th>
<th>Conc,%</th>
<th>GHS Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maduramicin Ammonium</td>
<td>84878-61-5</td>
<td>1</td>
<td>Acute Tox. 2 (H300)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Acute Tox. 2 (H310)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Eye Irrit. 2 (H319)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Skin Irrit. 3 (H316)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Aq. Acute 2 (H401)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Aq. Chronic 2 (H411)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS No</th>
<th>Conc,%</th>
<th>GHS Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carboxymethylcellulose sodium</td>
<td>9004-32-4</td>
<td>*</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Calcium sulfate, dehydrate</td>
<td>10101-41-4</td>
<td>*</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

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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Poisons Information Centre: 13 11 26 from anywhere in Australia
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
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:

<table>
<thead>
<tr>
<th>Physical State:</th>
<th>Powder</th>
<th>Color:</th>
<th>White to gray</th>
</tr>
</thead>
<tbody>
<tr>
<td>Odor:</td>
<td>No data available</td>
<td>Odor Threshold:</td>
<td>No data available</td>
</tr>
<tr>
<td>Molecular Formula:</td>
<td>Mixture</td>
<td>Molecular Weight:</td>
<td>Mixture</td>
</tr>
</tbody>
</table>

| 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) | No data available |
| 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
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

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.

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.

Skin Irritation / Sensitization Mild skin irritant in experimental animals.

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
Product Name: Cygro® 10G

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**Carboxymethylcellulose sodium**
13 Week(s)  Rat  Oral  227 g/kg  LOAEL  Liver, Kidney, Ureter, Bladder

**Reproduction & Development Toxicity: (Duration, Species, Route, Dose, End Point, Effect(s))**

**Maduramicin Ammonium**

<table>
<thead>
<tr>
<th>Duration</th>
<th>Species</th>
<th>Route</th>
<th>End Point</th>
<th>Dose</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 Year(s)</td>
<td>Mouse</td>
<td>Oral</td>
<td>&gt; 5 mg/kg/day</td>
<td>NOAEL</td>
</tr>
<tr>
<td>2 Year(s)</td>
<td>Rat</td>
<td>Oral</td>
<td>0.1 mg/kg/day</td>
<td>NOAEL</td>
</tr>
</tbody>
</table>

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

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

**Maduramicin Ammonium**

In Vivo Direct DNA Damage  Rat  Negative

In Vitro HGPRT Forward Gene Mutation Assay  Rat Hepatocyte Negative

In Vitro Chromosome Aberration  Chinese Hamster Ovary (CHO) cells  Negative

In Vitro Chromosome Aberration  Human Lymphocytes  Negative

In Vitro Unscheduled DNA Synthesis  Rat Hepatocyte  Negative

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

**Product Level Toxicity Data**

**Acute toxicity**

<table>
<thead>
<tr>
<th>Species</th>
<th>Route</th>
<th>End Point</th>
<th>Dose</th>
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</thead>
<tbody>
<tr>
<td>Rat</td>
<td>Dermal</td>
<td>LD50</td>
<td>&gt;2000 mg/kg</td>
</tr>
<tr>
<td>Rat</td>
<td>Inhalation</td>
<td>LC 50</td>
<td>3.16 mg/L</td>
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</table>

**Irritation / Sensitization**

<table>
<thead>
<tr>
<th>Study Type</th>
<th>Species</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Irritation</td>
<td>Rabbit</td>
<td>Slight</td>
</tr>
<tr>
<td>Eye Irritation</td>
<td>Rabbit</td>
<td>Slight</td>
</tr>
<tr>
<td>Skin Sensitization – LLNA</td>
<td>Mouse</td>
<td>Negative</td>
</tr>
</tbody>
</table>

**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**

<table>
<thead>
<tr>
<th>Organism</th>
<th>Method</th>
<th>End Point</th>
<th>Duration</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Daphnia magna (Water Flea)</td>
<td>OECD EC50</td>
<td>48 Hours</td>
<td>8.1 mg/L</td>
<td></td>
</tr>
<tr>
<td>Oncorhynchus mykiss (Rainbow Trout)</td>
<td>OECD LC50</td>
<td>96 Hours</td>
<td>2.0 mg/L</td>
<td></td>
</tr>
<tr>
<td>Pseudokirchneriella subcapitata (Green Alga)</td>
<td>OECD EC50</td>
<td>72 Hours</td>
<td>5.8 mg/L</td>
<td></td>
</tr>
</tbody>
</table>

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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 (7th 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
This version issued: 21 September 2021 and is valid for 5 years from this date

Supersedes: Revision issued 1 October 2016

Revision History:

<table>
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<tr>
<th>Date of Revision</th>
<th>Reason</th>
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<tbody>
<tr>
<td>19 February 2014</td>
<td>New SDS.</td>
</tr>
<tr>
<td>19 November 2015</td>
<td>Update Zoetis Address</td>
</tr>
<tr>
<td>01 Oct 2016</td>
<td>Reclassification of GHS hazard and precautionary statements.</td>
</tr>
<tr>
<td>21 Sep 2021</td>
<td>Periodical revision</td>
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Contact Points:

<table>
<thead>
<tr>
<th>Zoetis Police and Fire Brigade:</th>
<th>1800 814 883</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Dial 000</td>
</tr>
</tbody>
</table>

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