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: Rimadyl® Injection
APVMA Approval No: 51605
Other names: None
Chemical family: Injectable Carprofen in a saline solution
Recommended Use: Non-steroidal, anti-inflammatory and analgesic for use in dogs, cats and horses
Restrictions on use: For veterinary use only
Emergency Phone: 1800 814 883 (all hours)

Section 2 - Hazards Identification

Appearance: Clear, colorless to pale yellow liquid

Classification of the Substance or Mixture
GHS - Classification
Reproductive Toxicity: Category 2
Specific target organ systemic toxicity (repeated exposure): Category 2

Label Elements
Signal Word: Warning

Hazard Statements: H361 - Suspected of damaging fertility or the unborn child
H373 - May cause damage to organs through prolonged or repeated exposure

Precautionary Statements: P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P260 - Do not breathe dust/fume/gas/mist/vapors/spray
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P308 + P313 - IF exposed or concerned: Get medical attention/advice
P405 - Store locked up

Other Hazards
Short Term: There have been anecdotal reports that workers handling this material have experienced skin irritation and/or sensitivity reactions.
Long Term: Repeat-dose studies in animals have shown a potential to cause adverse effects on gastrointestinal system, the developing fetus.

Note: This document has been prepared in accordance with standards for workplace safety, which require the inclusion of all known hazards of the product or its ingredients regardless of the potential risk. The precautionary...
### Section 3 - Composition/Information on Ingredients

#### Hazardous Ingredients

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS No</th>
<th>Conc,%</th>
<th>GHS Classification</th>
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<tbody>
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<td>Glycocholic acid</td>
<td>475-31-0</td>
<td>*</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Benzyl Alcohol</td>
<td>100-51-6</td>
<td>*</td>
<td>Acute Tox. 4 (H302)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Acute Tox. 4 (H332)</td>
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<tr>
<td>Hydrogen chloride</td>
<td>7647-01-0</td>
<td>**</td>
<td>STOT SE 3 (H335)</td>
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<td></td>
<td></td>
<td></td>
<td>Skin Corr. 1A (H314)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Press. Gas</td>
</tr>
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<td></td>
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<td></td>
<td>Acute Tox. 3 (H331)</td>
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<tr>
<td>Sodium hydroxide</td>
<td>1310-73-2</td>
<td>**</td>
<td>Skin Corr. 1A (H314)</td>
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<td>Carprofen</td>
<td>53716-49-7</td>
<td>5</td>
<td>Acute Tox 3 (H301)</td>
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<td></td>
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<td>Repro 2 (H361d)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>STOT Re 2 (H373)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS No</th>
<th>Conc,%</th>
<th>GHS Classification</th>
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</thead>
<tbody>
<tr>
<td>Lecithin</td>
<td>8002-43-5</td>
<td>*</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Water for injection</td>
<td>7732-18-5</td>
<td>*</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

**Additional Information:**

* Proprietary
** to adjust pH

Ingredient(s) indicated as hazardous have been assessed under standards for workplace safety.

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:**

Immediately flush eyes with water for at least 15 minutes. If irritation occurs or persists, get medical attention.

**Skin Contact:**

Remove contaminated clothing and shoes. Wash skin with soap and water. If irritation occurs or persists, get 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: None known

Indication of the Immediate Medical Attention and Special Treatment Needed

Notes to Physician: None

Section 5 - Fire Fighting Measures

Extinguishing Media: Use carbon dioxide, dry chemical, or water spray.

Special Hazards Arising from the Substance or Mixture

Hazardous Combustion Products: May emit toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen chloride and other chlorine-containing compounds.

Fire / Explosion Hazards: Not applicable

Advice for Fire-Fighters
Wear approved positive pressure, self-contained breathing apparatus and full protective turn out gear. Evacuate area and fight fire from a safe distance.

Section 6 - Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures
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 spill if it is safe to do so. Collect spill with absorbent material. Clean spill area 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
Avoid breathing vapor or mist. Avoid contact with eyes, skin and clothing. 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 in a cool, dry, well-ventilated area. Store as directed by product packaging.

Incompatible Materials: None known

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Poisons Information Centre: 13 11 26 from anywhere in Australia
Specific end use(s): No data available

Section 8 - Exposure Controls and Personal Protection

Control Parameters
Refer to available public information for specific member state Occupational Exposure Limits.

Hydrogen chloride
Australia PEAK 5 ppm
7.5 mg/m³

Sodium hydroxide
Australia PEAK 2 mg/m³

Carprofen
Zoetis OEL TWA 8-hr 1000 μg/m³

Exposure Controls

Engineering Controls: Engineering controls should be used as the primary means to control exposures. General room ventilation is adequate unless the process generates dust, mist or fumes. Keep airborne contamination levels below the exposure limits 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: None required under normal conditions of use. 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.

Safety deluge showers should, if practical, be provided near to where this product is being handled commercially.

Section 9 - Physical and Chemical Properties:

Physical State: Liquid
Odor: No data available
Molecular Formula: Mixture

Solvent Solubility: No data available
Water Solubility: No data available
pH: 7.0-7.4
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

Color: Clear, colorless to pale yellow
Odor Threshold: No data available
Molecular Weight: Mixture

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**Viscosity:**  
No data available

**Flammability:**

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

- **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

**Polymerization:**  
Will not occur

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**Section 10 - Stability and Reactivity**

**Reactivity:**  
No data available

**Chemical Stability:**  
Stable under normal conditions of use

**Possibility of Hazardous Reactions**

- **Oxidizing Properties:**  
  None

- **Conditions to Avoid:**  
  None known

- **Incompatible Materials:**  
  None known

**Hazardous Decomposition Products:**  
Thermal decomposition products may include carbon monoxide, carbon dioxide, oxides of nitrogen and hydrogen chloride.

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**Section 11 - Toxicological Information**

**Information on Toxicological Effects**

**General Information:**  
The information included in this section describes the potential hazards of the individual ingredients.

**Acute Toxicity: (Species, Route, End Point, Dose)**

**Carprofen**

- Mouse Oral LD50 282 mg/kg
- Rat Oral LD50 149mg/kg
- Rat (M/F) SC LD50 230/190mg/kg
- Rat (M/F) IP LD50 140/110 mg/kg

**Lecithin**

- Rat Oral LD50 > 8 ml/kg

**Benzyl Alcohol**

- Rat Oral LD50 1230 mg/kg
- Rat Para-periosteal LD50 53mg/kg
- Rat Inhalation LC50 >4.178mg/L

**Sodium hydroxide**

- Mouse IP LD50 40 mg/kg

**Hydrogen chloride**

- Rat Sub-tenon injection (eye) LC50 1H 3,124 ppm
- Mouse Inhalation LC50 1H 1,108ppm
- Mouse Oral LD50 900mg/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)**
Carprofen
Eye Irritation  Rabbit  Non-irritating
Skin Irritation  Rabbit  Non-irritating
Skin Sensitization - GPMT  Guinea Pig  Negative
Antigenicity- Delayed skin reaction  Guinea Pig  No effect

Benzyl Alcohol
Eye Irritation  Rabbit  Severe
Skin Irritation  Rabbit  Moderate
Skin Irritation  Guinea  Pig  Moderate

Sodium hydroxide
Eye Irritation  Rabbit  Severe
Skin Irritation  Rabbit  Severe

Repeated Dose Toxicity: (Duration, Species, Route, Dose, End Point, Target Organ)

Carprofen
13 Week(s)  Rat  Oral  5 mg/kg/day  NOAEL  Gastrointestinal System
13 Week(s)  Dog  Oral  5 mg/kg/day  NOAEL  None identified

Reproduction & Developmental Toxicity: (Study Type, Species, Route, Dose, End Point, Effect(s))

Carprofen
Reproductive & Fertility  Rat  20 mg/kg/day  NOAEL  Fetotoxicity, Maternal toxicity
Embryo / Fetal Development  Rat  20 mg/kg/day  NOAEL  Not Teratogenic
Prenatal & Postnatal Development  Mouse  40 mg/kg/day  NOAEL  Not Teratogenic
Prenatal & Postnatal Development  Rabbit  Oral  6 mg/kg/day  NOAEL  Embryotoxicity, Early embryonic development

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

Carprofen
Bacterial Mutagenicity (Ames)  Salmonella  Negative
In Vivo Micronucleus  Mouse  Negative

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

Carprofen
2 Year(s)  Rat  Oral  10 mg/kg/day  NOAEL  Not carcinogenic, Gastrointestinal system
2 Year(s)  Dog  Oral  25 mg/kg/day  NOAEL  Not carcinogenic, No effects at maximum dose

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

Hydrogen chloride
IARC:  Group 3 (Not Classifiable)

Section 12 - Ecological Information

Environmental Overview:  The environmental characteristics of this material have not been fully evaluated. Releases to the environment should be avoided.

Toxicity:  No data available

Persistence and Degradability:  No data available

Bio-accumulative Potential:  No data available
Section 13 - Disposal Considerations

Disposal: Dispose of small quantities and empty containers by wrapping with paper and putting in garbage. Discarded needles should immediately be placed in a designated and appropriately labelled sharps container. For larger quantities use a commercial waste disposal service.

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

<table>
<thead>
<tr>
<th>Substance</th>
<th>Australia (AICS):</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzyl Alcohol</td>
<td>Present</td>
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<tr>
<td>Lecithin</td>
<td>Present</td>
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<tr>
<td>Water for injection</td>
<td>Present</td>
</tr>
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<td>Hydrogen chloride</td>
<td>Present</td>
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<tr>
<td>Sodium hydroxide</td>
<td>Present</td>
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<tr>
<td>Carprofen</td>
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</tbody>
</table>

Poison Schedule: Schedule 4

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:

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
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<tbody>
<tr>
<td>ADG Code</td>
<td>Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition)</td>
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<tr>
<td>AICS</td>
<td>Australian Inventory of Chemical Substances</td>
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<tr>
<td>SWA</td>
<td>Safe Work Australia, formerly ASCC and NOHSC</td>
</tr>
<tr>
<td>CAS number</td>
<td>Chemical Abstracts Service Registry Number</td>
</tr>
<tr>
<td>Hazchem Code</td>
<td>Emergency action code of numbers and letters that provide information to emergency services especially firefighters</td>
</tr>
<tr>
<td>IARC</td>
<td>International Agency for Research on Cancer</td>
</tr>
<tr>
<td>NOS</td>
<td>Not otherwise specified</td>
</tr>
<tr>
<td>NTP</td>
<td>National Toxicology Program (USA)</td>
</tr>
<tr>
<td>R-Phrase</td>
<td>Risk Phrase</td>
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<tr>
<td>SUSMP</td>
<td>Standard for the Uniform Scheduling of Medicines &amp; Poisons</td>
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<tr>
<td>UN Number</td>
<td>United Nations Number</td>
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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: 22 September 2021 and is valid for 5 years from this date

Supersedes: Revision issued 1 October 2016

Revision History:

<table>
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<th>Date of Revision</th>
<th>Reason</th>
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<tbody>
<tr>
<td>17 Nov 2014</td>
<td>Update to GHS</td>
</tr>
<tr>
<td>30 Apr 2015</td>
<td>Revision for consistency with Zoetis organisation</td>
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<tr>
<td>01 Oct 2016</td>
<td>Corrections to the ingredient listing</td>
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<tr>
<td>22 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