

Version: 2.0 Revision date: 02-Oct-2013 Page 1 of 11

# 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE **COMPANY/UNDERTAKING**

**Product Identifier** 

Material Name: Rimadyl®(Carprofen) Injectable Solution

**Trade Name:** Rimadyl **Chemical Family:** Mixture

Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Intended Use: Veterinary product used as non-steroidal, anti-inflammatory drug (nsaid)

**Restrictions on Use:** Not for human use

Details of the Supplier of the Safety Data Sheet

Zoetis Belgium S.A. Zoetis Inc. 100 Campus Drive, P.O. Box 651 Mercuriusstraat 20 Florham Park, New Jersey 07932 (USA) 1930 Zaventem **Belgium** 

Rocky Mountain Poison Control Center Phone: 1-866-531-8896

Product Support/Technical Services Phone: 1-800-366-5288

**Emergency telephone number: Emergency telephone number:** 

CHEMTREC (24 hours): 1-800-424-9300 International CHEMTREC (24 hours): +1-703-527-3887

Contact E-Mail: VMIPSrecords@zoetis.com

# 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

**US OSHA Specific - Classification** 

**EU Classification:** 

EU Indication of danger: Harmful

Toxic to Reproduction: Category 3

EU Symbol: Xn

EU Risk Phrases:

R22 - Harmful if swallowed.

R63 - Possible risk of harm to the unborn child.

**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

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**Precautionary Statements:** P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood

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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

There have been anecdotal reports that workers handling this material have experienced skin **Short Term:** 

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. Hazardous Substance. Non-Dangerous Goods.

**Australian Hazard Classification** 

(NOHSC):

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 statements and warnings included may not apply in all cases.

Your needs may vary depending upon the potential for exposure in your workplace.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Hazardous** 

Ingredient	CAS Number	EU EINECS/ELINCS List	EU Classification	GHS Classification	%
Glycocholic acid	475-31-0	207-494-9	Not Listed	Not Listed	*
Benzyl Alcohol	100-51-6	202-859-9	Xn; R20/22	Acute Tox. 4 (H302) Acute Tox. 4 (H332)	*
Hydrogen chloride	7647-01-0	231-595-7	T; R23 C; R35	STOT SE 3 (H335) Skin Corr. 1A (H314) Press. Gas Acute Tox. 3 (H331)	**
Sodium hydroxide	1310-73-2	215-185-5	C; R35	Skin Corr. 1A (H314)	**
Carprofen	53716-49-7	258-712-4	Repr.Cat.3;R63 T;R25 Xn;R48/22	Acute Tox 3 (H301) Repro 2 (H361d) STOT Re 2 (H373)	5

Ingredient	CAS Number	EU	<b>EU Classification</b>	GHS	%
		EINECS/ELINCS		Classification	
		List			

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Lecithin	8002-43-5	232-307-2	Not Listed	Not Listed	*
Water for injection	7732-18-5	231-791-2	Not Listed	Not Listed	*

Additional Information: \* Proprietary

\*\* to adjust pH

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

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safety.

For the full text of the R phrases and CLP/GHS abbreviations mentioned in this Section, see Section 16

## 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 For information on potential signs and symptoms of exposure, See Section 2 - Hazards

**Exposure:** Identification and/or Section 11 - Toxicological Information.

Medical Conditions None known

Aggravated by Exposure:

Indication of the Immediate Medical Attention and Special Treatment Needed

Notes to Physician: None

## 5. FIRE-FIGHTING MEASURES

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

Special Hazards Arising from the Substance or Mixture

Hazardous Combustion May emit toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen chloride

**Products:** 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.

# 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**

00-08174

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

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Measures for Cleaning /

Collecting:

Contain the source of spill if it is safe to do so. Collect spill with absorbent material. Clean spill

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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.

## 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
Specific end use(s): No data available

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

## **Control Parameters**

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

### **Benzyl Alcohol**

Bulgaria OEL - TWA	5.0 mg/m <sup>3</sup>
Czech Republic OEL - TWA	40 mg/m <sup>3</sup>
Finland OEL - TWA	10 ppm
	45 mg/m <sup>3</sup>
Latvia OEL - TWA	5 mg/m³
Lithuania OEL - TWA	5 mg/m <sup>3</sup>
Poland OEL - TWA	240 mg/m <sup>3</sup>

### Hydrogen chloride

ACGIH Ceiling Threshold Limit: Australia PEAK	2 ppm 5 ppm 7.5 mg/m³
Austria OEL - MAKs	5 ppm 8 mg/m <sup>3</sup>
Belgium OEL - TWA	5 ppm 8 mg/m <sup>3</sup>
Bulgaria OEL - TWA	8.0 mg/m <sup>3</sup> 5 ppm
Cyprus OEL - TWA	5 ppm 8 mg/m³
Czech Republic OEL - TWA Estonia OEL - TWA	8 mg/m³ 5 ppm
Germany - TRGS 900 - TWAs	8 mg/m <sup>3</sup> 2 ppm
•	3 mg/m <sup>3</sup>
Germany (DFG) - MAK	2 ppm 3.0 mg/m <sup>3</sup>
Greece OEL - TWA	5 ppm

 $7 \text{ mg/m}^3$ 

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# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

O. LAI OSUNE C	CHINOLS / I LINS
Hungary OEL - TWA	8 mg/m <sup>3</sup>
Ireland OEL - TWAs	5 ppm
	8 mg/m³
Italy OEL - TWA	5 ppm
	8 mg/m³
Japan - OELs - Ceilings	5 ppm 7.5 mg/m³
Latvia OEL - TWA	7.5 mg/m² 5 ppm
Latvia OEL - TWA	8 mg/m <sup>3</sup>
Lithuania OEL - TWA	5 ppm
	8 mg/m <sup>3</sup>
Luxembourg OEL - TWA	5 ppm
•	8 mg/m <sup>3</sup>
Malta OEL - TWA	5 ppm
	8 mg/m <sup>3</sup>
Netherlands OEL - TWA	8 mg/m <sup>3</sup>
Vietnam O EL - TWAs	5 mg/m <sup>3</sup>
Poland OEL - TWA	5 mg/m <sup>3</sup>
Romania OEL - TWA	5 ppm
Slovakia OEL - TWA	8 mg/m³ 5 ppm
SIOVANIA OEL - I WA	8.0 mg/m <sup>3</sup>
Slovenia OEL - TWA	5 ppm
	8 mg/m <sup>3</sup>
Spain OEL - TWA	5 ppm
	7.6 mg/m <sup>3</sup>
Switzerland OEL -TWAs	2 ppm
	3.0 mg/m <sup>3</sup>
um hydroxide	
ACGIH Ceiling Threshold Limit:	2 mg/m <sup>3</sup>
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### Sodiu

ACGIH Ceiling Threshold Limit: 2 mg/m<sup>3</sup> **Australia PEAK**  $2 \text{ mg/m}^3$  $2 \text{ mg/m}^3$ **Austria OEL - MAKs Bulgaria OEL - TWA** 2.0 mg/m<sup>3</sup> Czech Republic OEL - TWA 1 mg/m<sup>3</sup>  $1 \text{ mg/m}^3$ **Estonia OEL - TWA** France OEL - TWA  $2 \text{ mg/m}^3$ **Greece OEL - TWA**  $2 \text{ mg/m}^3$ 2 mg/m<sup>3</sup> **Hungary OEL - TWA** Japan - OELs - Ceilings  $2 \text{ mg/m}^3$ Latvia OEL - TWA 0.5 mg/m<sup>3</sup> **OSHA - Final PELS - TWAs:**  $2 \text{ mg/m}^3$ Poland OEL - TWA 0.5 mg/m<sup>3</sup> 2 mg/m<sup>3</sup> Slovakia OEL - TWA 2 mg/m<sup>3</sup> Slovenia OEL - TWA 1 mg/m<sup>3</sup> **Sweden OEL - TWAs Switzerland OEL -TWAs** 2 mg/m<sup>3</sup>

### Carprofen

00-08174

**Zoetis OEL TWA 8-hr** 1000 µg/m<sup>3</sup>

### **Exposure Controls**

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

Refer to applicable national standards and regulations in the selection and use of personal

Equipment:

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.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid Color: Clear, colorless to pale

yellow

Odor: No data available. Odor Threshold: No data available.

Molecular Formula: Mixture Molecular Weight: Mixture

Solvent Solubility: No data available Water Solubility: No data available

**pH**: 7.0-7.4

Melting/Freezing Point (°C):

Boiling Point (°C):

No data available.

No data available.

Partition Coefficient: (Method, pH, Endpoint, Value)

No data available

**Decomposition Temperature (°C):** No data available.

Evaporation Rate (Gram/s):

Vapor Pressure (kPa):

Vapor Density (g/ml):

Relative Density:

No data available

Flammablity:

Autoignition Temperature (Solid) (°C):

Flammability (Solids):

Flash Point (Liquid) (°C):

Upper Explosive Limits (Liquid) (% by Vol.):

Lower Explosive Limits (Liquid) (% by Vol.):

Polymerization:

No data available
No data available
Will not occur

## 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

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## 10. STABILITY AND REACTIVITY

Hazardous Decomposition

Products:

Thermal decomposition products may include carbon monoxide, carbon dioxide, oxides of nitrogen and hydrogen chloride.

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# 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

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# 11. TOXICOLOGICAL INFORMATION

Skin Irritation Rabbit Severe

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

Carprofen

13 Week(s) Rat Oral5 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)

## 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

Mobility in Soil: No data available

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## 13. DISPOSAL CONSIDERATIONS

#### **Waste Treatment Methods:**

Dispose of waste in accordance with all applicable laws and regulations. Member State specific and Community specific provisions must be considered. Considering the relevant known environmental and human health hazards of the material, review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure and environmental release. It is recommended that waste minimization be practiced. The best available technology should be utilized to prevent environmental releases. This may include destructive techniques for waste and wastewater.

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# 14. TRANSPORT INFORMATION

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

Not regulated for transport under USDOT, EUADR, IATA, or IMDG regulations.

# 15. REGULATORY INFORMATION

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

Canada - WHMIS: Classifications WHMIS hazard class:

Class D, Division 2, Subdivision A



#### Glycocholic acid

Not Listed **CERCLA/SARA 313 Emission reporting California Proposition 65** Not Listed **EU EINECS/ELINCS List** 207-494-9

## **Benzyl Alcohol**

**CERCLA/SARA 313 Emission reporting** Not Listed **California Proposition 65** Not Listed Inventory - United States TSCA - Sect. 8(b) Present Australia (AICS): Present 202-859-9 **EU EINECS/ELINCS List** 

### Lecithin

**CERCLA/SARA 313 Emission reporting** Not Listed **California Proposition 65** Not Listed Inventory - United States TSCA - Sect. 8(b) Present Australia (AICS): Present

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# 15. REGULATORY INFORMATION

REACH - Annex IV - Exemptions from the Present

obligations of Register:
EU EINECS/ELINCS List 232-307-2

Water for injection

CERCLA/SARA 313 Emission reporting

California Proposition 65

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

REACH - Annex IV - Exemptions from the

Present

Present

obligations of Register:

EU EINECS/ELINCS List 231-791-2

Hydrogen chloride

CERCLA/SARA 313 Emission reporting 1.0 %
CERCLA/SARA Hazardous Substances 5000 lb
and their Reportable Quantities: 2270 kg
CERCLA/SARA - Section 302 Extremely Hazardous 500 lb

**TPQs** 

CERCLA/SARA - Section 302 Extremely Hazardous 5000 lb

**Substances EPCRA RQs** 

California Proposition 65
Inventory - United States TSCA - Sect. 8(b)
Australia (AICS):
Standard for the Uniform Scheduling
for Drugs and Poisons:
Schedule 6
EU EINECS/ELINCS List
Not Listed
Present
Schedule 5
Schedule 6
231-595-7

Sodium hydroxide

**CERCLA/SARA 313 Emission reporting** Not Listed **CERCLA/SARA Hazardous Substances** 1000 lb and their Reportable Quantities: 454 kg **California Proposition 65** Not Listed Inventory - United States TSCA - Sect. 8(b) Present Australia (AICS): Present Standard for the Uniform Scheduling Schedule 5 for Drugs and Poisons: Schedule 6 **EU EINECS/ELINCS List** 215-185-5

Carprofen

CERCLA/SARA 313 Emission reporting

California Proposition 65

Australia (AICS):

Standard for the Uniform Scheduling

Not Listed

Not Listed

Present

Schedule 4

for Drugs and Poisons:

EU EINECS/ELINCS List 258-712-4

## **16. OTHER INFORMATION**

Text of R phrases and GHS Classification abbreviations mentioned in Section 3

Material Name: Rimadyl®(Carprofen) Injectable Solution

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Acute toxicity, oral-Cat.3; H301 - Toxic if swallowed Acute toxicity, oral-Cat.4; H302 - Harmful if swallowed Acute toxicity, inhalation-Cat.3; H331 - Toxic if inhaled Acute toxicity, inhalation-Cat.4; H332 - Harmful if inhaled

Reproductive toxicity-Cat.2; H361d - Suspected of damaging the unborn child

Specific target organ toxicity, repeated exposure-Cat.2; H373 - May cause damage to organs through prolonged or repeated exposure Specific target organ toxicity, single exposure; Respiratory tract irritation-Cat.3; H335 - May cause respiratory irritation

Skin corrosion/irritation-Cat.1A; H314 - Causes severe skin burns and eye damage

C - Corrosive

Toxic to Reproduction: Category 3

T - Toxic Xn - Harmful

R23 - Toxic by inhalation. R25 - Toxic if swallowed. R35 - Causes severe burns.

R63 - Possible risk of harm to the unborn child. R20/22 - Harmful by inhalation and if swallowed.

R48/22 - Harmful: danger of serious damage to health by prolonged exposure if swallowed.

**Data Sources:** The data contained in this MSDS may have been gathered from confidential internal sources,

raw material suppliers, or from the published literature.

Updated Section 1 - Identification of the Substance/Preparation and the Company/Undertaking. Reasons for Revision:

Updated Section 2 - Hazard Identification, Updated Section 4 - First Aid Measures, Updated Section 7 - Handling and Storage. Updated Section 8 - Exposure Controls / Personal

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Protection.

Prepared by: Toxicology and Hazard Communication

Zoetis Global Risk Management

Zoetis Inc. believes that the information contained in this Material Safety Data Sheet is accurate, and while it is provided in good faith, it is without warranty of any kind, expressed or implied. If data for a hazard are not included in this document there is no known information at this time.

**End of Safety Data Sheet**