SAFETY DATA SHEET



1. Identification

Product identifier Rimadyl® (Carprofen) Sterile Injectable Solution

Other means of identification

Synonyms RIMADYL® INJECTABLE SOLUTION * Rimadyl® Injection * Carprofen injectable solution

Recommended use Veterinary product used as Non-steroidal, anti-inflammatory drug (NSAID)

Recommended restrictions Not for human use Manufacturer/Importer/Supplier/Distributor information

Company Name (USA) Zoetis Inc.

10 Sylvan Way

Parsippany, New Jersey 07054 (USA)

Rocky Mountain Poison &

Drug Safety

1-866-531-8896

Product Support/Technical

Services

1-888-963-8471

Emergency telephone

numbers

CHEMTREC (24 hours): 1-800-424-9300

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

Company Name (CA) Zoetis Canada Inc.

> 16740 Trans-Canada Highway Kirkland, Quebec, H9H 4M7

Emergency telephone

number

CHEMTREC (24 hours): 1-800-424-9300

Contact E-Mail productsupport@zoetis.com 1-800-461-0917 **Product Support**

All Safety Data Sheets are available via our Zoetis Canada website at

https://www.zoetis.ca/sds/sds.aspx

Not available. Supplier

2. Hazard identification

Physical hazards Not classified.

Health hazards Sensitization, skin Category 1

Reproductive toxicity (the unborn child) Category 2

Specific target organ toxicity following

repeated exposure

Category 2 (digestive organs)

Environmental hazards Not classified.

Label elements



Signal word Warning

Hazard statement May cause an allergic skin reaction. Suspected of damaging the unborn child. May cause damage

to organs (digestive organs) through prolonged or repeated exposure by ingestion.

Precautionary statement

Obtain special instructions before use. Do not handle until all safety precautions have been read Prevention

and understood. Do not breathe mist/vapours. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection.

Material name: Rimadyl® (Carprofen) Sterile Injectable Solution

SDS CANADA Version #: 03 Revision date: 14-March-2024 Issue date: 03-June-2017

Response IF ON SKIN: Wash with plenty of water. IF exposed or concerned: Get medical advice/attention. If

skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and

wash it before reuse.

Storage Store locked up.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental information

May cause eye and skin irritation.

Other hazards

None known.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Carprofen	PF-03732988 (±)-6-Chloro-a-methylcarbazole-2-acetic acid: 9H-Carbazole-2-acetic acid, 6-chloro-a-methyl-, (±)-	53716-49-7	5
Benzyl alcohol		100-51-6	1
Hydrochloric acid		7647-01-0	**
Sodium hydroxide		1310-73-2	**

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Composition comments

** to adjust pH

4. First-aid measures

Inhalation Move to fresh air. For breathing difficulties, oxygen may be necessary. Call a physician if

symptoms develop or persist.

Skin contact Take off contaminated clothing and wash before reuse. In case of eczema or other skin disorders:

Seek medical attention and take along these instructions. In the event of accidental self injection or needle stick injury, wash the injury thoroughly with clean running water. Get medical attention

immediately.

Eye contact Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses.

Continue rinsing. Get medical attention immediately.

Ingestion Call a physician or poison control centre immediately. Rinse mouth. Never give anything by mouth

to a victim who is unconscious or is having convulsions. Do not induce vomiting without advice

from poison control center.

Most important

symptoms/effects, acute and

delayed

Nausea, vomiting. Abdominal pain. Exposed individuals may experience eye tearing, redness, and discomfort. Skin irritation. Exposure may cause temporary irritation, redness, or discomfort. May cause an allergic skin reaction. Dermatitis. Rash. if swallowed: Chronic exposure to this material

Indication of immediate medical attention and special treatment needed

General information

may cause serious gastrointestinal toxicity such as bleeding, ulceration, and perforation.

Provide general supportive measures and treat symptomatically. Symptoms may be delayed.

IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse. For personal protection, see section 8 of the SDS.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire.

During fire, gases hazardous to health may be formed.

Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting

Move containers from fire area if you can do so without risk.

equipment/instructions
Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. Avoid contact with eyes, skin, and clothing. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Remove sources of ignition. Ensure adequate ventilation. Prevent product from entering drains.

Large Spills: Stop the flow of material, if this is without risk. Absorb in vermiculite, dry sand or earth and place into containers. Clean surface thoroughly to remove residual contamination.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not taste or swallow. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Wear appropriate personal protective equipment. Wash thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices. Avoid accidental injection.

Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Store in tightly closed container. Store in a well-ventilated place. Refrigeration recommended. Store away from incompatible materials (see Section 10 of the SDS). Store at 2-8°C. Prolonged exposure to higher temperatures may adversely affect potency. Do not freeze.

8. Exposure controls/personal protection

Occupational exposure limits

Zoetis Components	Туре	Value
Carprofen (CAS 53716-49-7)	TWA	1000 μg/m3
US. ACGIH Threshold Limit Value	s (TLV)	
Components	Туре	Value
Hydrochloric acid (CAS 7647-01-0)	Ceiling	2 ppm
Sodium hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3
Canada. Alberta OELs (Occupatio	onal Health & Safety Code, Sch	nedule 1, Table 2), as amended
Components	Туре	Value
Hydrochloric acid (CAS 7647-01-0)	Ceiling	3 mg/m3
,		2 ppm
Sodium hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3
Canada. British Columbia OELs. (Safety Regulation 296/97, as ame		s for Chemical Substances, Occupational Health and
Components	Туре	Value
Hydrochloric acid (CAS 7647-01-0)	Ceiling	2 ppm
Sodium hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3
Canada. Manitoba OELs (Reg. 21)	7/2006, The Workplace Safety	And Health Act), as amended
Components	Туре	Value
Hydrochloric acid (CAS 7647-01-0)	Ceiling	2 ppm
Sodium hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3

Canada. New Brunswick OELs: Threshold Limit Values (TLVs) Based on the 1991 and 1997 ACGIH TLVs and BEIs Publication (New Brunswick Regulation 91-191)

Components	Туре	Value
Hydrochloric acid (CAS 7647-01-0)	Ceiling	2 ppm
Sodium hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3

Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended

Components	Туре	Value
Hydrochloric acid (CAS 7647-01-0)	Ceiling	2 ppm
Sodium hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3

Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended Components Type Value

Sodium hydroxide (CAS Ceiling 2 mg/m3

1310-73-2)

Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended Components Type Value Hydrochloric acid (CAS Ceiling 2 ppm

7647-01-0)
Sodium hydroxide (CAS Ceiling 2 mg/m3 1310-73-2)

Biological limit values No biological exposure limits noted for the ingredient(s).

Control banding approach Not available.

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. General ventilation normally adequate.

Individual protection measures, such as personal protective equipment

Eye/face protection If contact is likely, safety glasses with side shields are recommended.

Skin protection

Hand protection Wear appropriate chemical resistant gloves. Impervious gloves are recommended if skin contact

with drug product is possible and for bulk processing operations.

Other Avoid contact with the skin. Use protective clothing (uniforms, lab coats, disposable coveralls, etc.)

in both production and laboratory areas.

Respiratory protection No personal respiratory protective equipment normally required. Whenever air contamination

(mist, vapor or odor) is generated, respiratory protection is recommended as a precaution to minimize exposure. 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.

Thermal hazards Not applicable.

General hygiene considerations

Observe any medical surveillance requirements. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Contaminated work clothing should not be allowed out of the workplace.

9. Physical and chemical properties

Physical state Liquid.
Form Liquid.

Colour Clear, colorless to pale yellow.

Odour Not available.

Melting point/freezing point Not available.

Boiling point or initial boiling point and boiling range

Flammability Not applicable.

Upper/lower flammability or explosive limits

Explosive limit - lower (%) Not available. Not available. Explosive limit - upper

(%)

Not available. Flash point **Auto-ignition temperature** Not available. Not available. **Decomposition temperature** >7-<7.4 Not available. Kinematic viscosity

Solubility

Not available. Solubility (water) Not available. Partition coefficient

(n-octanol/water) (log value)

Not available. Vapour pressure Not available. Density and/or relative density Vapour density Not available. Not available. **Particle characteristics**

Other information

Explosive properties Not explosive. **Oxidising properties** Not oxidising.

10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Heat, flames and sparks. High temperatures. Contact with incompatible materials. Protect from

freezing.

Incompatible materials Strong oxidising agents.

Hazardous decomposition

products

Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition.

11. Toxicological information

Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful. Under normal conditions of intended use, this

material is not expected to be an inhalation hazard.

Hydrochloric acid Severity: Irritant

Skin contact Prolonged skin contact may cause temporary irritation. May cause an allergic skin

reaction. There have been anecdotal reports that workers handling this material have

experienced skin irritation and/or sensitivity reactions.

Severity: Severe Hydrochloric acid

Benzyl alcohol Species: Guinea Pig

Severity: Moderate

Species: Rabbit Severity: Minimal

Carprofen Species: Rabbit

Severity: Non-irritating

Sodium hydroxide Species: Rabbit

Severity: Severe

Direct contact with eyes may cause temporary irritation. Eve contact

Hydrochloric acid Severity: Severe

Material name: Rimadyl® (Carprofen) Sterile Injectable Solution

Eye contact

Carprofen Species: Rabbit

Severity: Non-irritating

Benzyl alcohol Species: Rabbit

Severity: Severe

Sodium hydroxide Species: Rabbit

Severity: Severe

Ingestion May be harmful if swallowed. However, ingestion is not likely to be a primary route of

occupational exposure.

Hydrochloric acid Severity: Irritant

perforation.

Symptoms related to the physical, chemical and toxicological characteristics Nausea, vomiting. Abdominal pain. Exposed individuals may experience eye tearing, redness, and discomfort. Direct contact with eyes may cause temporary irritation. Mild skin irritation. Exposure may cause temporary irritation, redness, or discomfort. May cause an allergic skin reaction. Dermatitis. Rash. if swallowed: Chronic exposure to this material may cause serious gastrointestinal toxicity such as bleeding, ulceration, and

Information on toxicological effects

May be harmful if swallowed. **Acute toxicity**

Product Test Results Species

Rimadyl® (Carprofen) Sterile Injectable Solution

Acute Oral

ATE 2860 mg/kg

Components **Species Test Results**

Benzyl alcohol (CAS 100-51-6)

Acute Dermal

LD50 Rabbit

2000 mg/kg

Inhalation

1000 mg/l, 8 Hours LC50 Rat

Oral

LD50 Mouse 1580 mg/kg

> Rat 1230 mg/kg

Carprofen (CAS 53716-49-7)

Acute

Intraperitoneal

LD50 Rat 140 - 110 mg/kg (M/F)

Oral

LD50 Mouse 282 mg/kg Rat

149 mg/kg

Subcutaneous

LD50 Rat 230 - 190 mg/kg (M/F)

Chronic

Oral

NOAEL Dog 25 mg/kg/day, 2 years (Not carcinogenic;

No effects at maximum dose)

Rat 10 mg/kg/day, 2 years (Not carcinogenic,

Gastrointestinal system effects)

Subchronic

Oral

NOAEL Dog 5 mg/kg/day, 13 weeks (Target organs:

None identified)

Components Species Test Results

Rat

5 mg/kg/day, 13 weeks (Target organs:

Gastrointestinal System)

Hydrochloric acid (CAS 7647-01-0)

Acute Dermal

LD50 Mouse 1449 mg/kg

Sodium hydroxide (CAS 1310-73-2)

Acute Dermal

LD50 Rabbit 1350 mg/kg

Intraperitoneal

LD50 Mouse 40 mg/kg

Oral

LD50 Rat 140 - 340 mg/kg

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Corrosivity

Hydrochloric acid Severity: Corrosive

Carprofen Species: Rabbit

Severity: Non-irritating

Serious eye damage/eye irritation

Direct contact with eyes may cause temporary irritation.

Eye contact

Hydrochloric acid Severity: Severe

Carprofen Species: Rabbit

Severity: Non-irritating

Benzyl alcohol Species: Rabbit

Severity: Severe

Sodium hydroxide Species: Rabbit

Severity: Severe

Respiratory or skin sensitisation

Canada - Alberta OELs: Irritant

Hydrochloric acid (CAS 7647-01-0) Irritant Sodium hydroxide (CAS 1310-73-2) Irritant

Respiratory sensitisation Not a respiratory sensitiser.

Skin sensitisation May cause an allergic skin reaction. Not a skin sensitizer in experimental animals. However,

workers handling Rimadyl tablets have developed red and blotchy patches on their hands and

faces.

Skin Sensitisation

Carprofen GPMT

Species: Guinea Pig Severity: Negative

Benzyl alcohol Result: Sensitiser

Germ cell mutagenicityNo data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Mutagenicity

Carprofen Bacterial Mutagenicity (Ames)

Result: Negative Species: Salmonella

Mutagenicity Carprofen

In Vivo Micronucleus Result: Negative Species: Mouse

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

ACGIH Carcinogens

Hydrochloric acid (CAS 7647-01-0)

A4 Not classifiable as a human carcinogen.

Canada - Manitoba OELs: carcinogenicity

Hydrochloric acid (CAS 7647-01-0) Not classifiable as a human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

Hydrochloric acid (CAS 7647-01-0) 3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicity Suspected of damaging the unborn child.

Developmental effects

Carprofen 20 mg/kg/day Embryo / Fetal Development, Not Teratogenic

Result: NOAEL Species: Rat

40 mg/kg/day Prenatal & Postnatal Development, Not

Teratogenic Result: NOAEL Species: Mouse

6 mg/kg/day Prenatal & Postnatal Development, Embryotoxicity, Early embryonic development

Result: NOAEL Species: Rabbit Organ: Oral

Reproductivity

Carprofen 20 mg/kg/day Reproductive & Fertility, Fetotoxicity, Maternal

toxicity

Result: NOAEL Species: Rat

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

May cause damage to organs (digestive organs) through prolonged or repeated

exposure by ingestion.

Aspiration hazard Not an aspiration hazard.

Chronic effects Prolonged inhalation may be harmful. May cause damage to organs through prolonged

or repeated exposure.

Further information Anecdotal reports from facilities handling RIMADYL caplets have indicated a potential

for workers to develop rashes upon exposure to dusts of the material.

12. Ecological information

Ecotoxicity Avoid release to the environment. The product is not classified as environmentally hazardous.

However, this does not exclude the possibility that large or frequent spills can have a harmful or

damaging effect on the environment.

Components **Species Test Results** Benzyl alcohol (CAS 100-51-6) **Aquatic** EC50 Pseudokirchneriella subcapitata (Green 500 mg/l, 72 Hours Algae Alga) Crustacea EC50 Daphnia magna (Water Flea) 230 mg/l, 48 Hours 66 mg/l, 21 day(s) Toxicity for reproduction Fish LC50 Pimephales promelas (Fathead 460 mg/l, 96 Hours Minnow)

Material name: Rimadyl® (Carprofen) Sterile Injectable Solution

Components Species Test Results

Acute

Fish LC50 Bluegill (Lepomis macrochirus) 10 mg/l, 96 hours

Hydrochloric acid (CAS 7647-01-0)

Aquatic

Acute

Fish LC50 Western mosquitofish (Gambusia affinis) 282 mg/l, 96 hours

Sodium hydroxide (CAS 1310-73-2)

Aquatic

Acute

Crustacea EC50 Water flea (Ceriodaphnia dubia) 34.59 - 47.13 mg/l, 48 hours

Fish LC50 Western mosquitofish (Gambusia affinis) 125 mg/l, 96 hours

Persistence and degradability No data is available on the degradability of this product. The following information is available for

the individual ingredients.

Biodegradability

Percent Degradation (Aerobic Biodegradation)

Benzyl alcohol 92 - 96 %

Test Duration: 28 days

Bioaccumulative potentialNo data available for this product. Not expected to bioaccumulate. The following information is

available for the individual ingredients.

Partition coefficient n-octanol / water (log Kow)

Benzyl alcohol 1.1

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructionsAvoid release to the environment. Do not discharge into drains, water courses or onto the ground.

Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in

accordance with local/regional/national/international regulations. 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.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company. None known.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner.

Contaminated packagingSince emptied containers may retain product residue, follow label warnings even after container is

emptied.

14. Transport information

TDG

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Not established.

Annex II of MARPOL 73/78 and

the IBC Code

15. Regulatory information

Canadian regulations This product has been classified in accordance with the hazard criteria of the HPR and the SDS

contains all the information required by the HPR.

Controlled Drugs and Substances Act

Not regulated.

Export Control List (CEPA 1999, Schedule 3)

Not listed.

Greenhouse Gases

Not listed.

Precursor Control Regulations

Hydrochloric acid (CAS 7647-01-0) Class B

International regulations

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Kyoto Protocol

Not applicable.

Montreal Protocol

Not applicable.

Basel Convention

Not applicable.

International Inventories

Country(s) or region

Australia	Australian Inventory of Industrial Chemicals (AICIS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
.lanan	Inventory of Existing and New Chemical Substances (ENCS)	No

Japan Inventory of Existing and New Chemical Substances (ENCS)

Korea Existing Chemicals List (ECL)

New Zealand Inventory

Philippines Philippine Inventory of Chemicals and Chemical Substances

(PICCS)

Taiwan Chemical Substance Inventory (TCSI)

Inventory name

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory No

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information

Issue date03-June-2017Revision date14-March-2024

Version No. 03

List of abbreviations ATE: Acute Toxicity Estimate according to REGULATION (EC) No 1272/2008 (CLP).

Disclaimer Zoetis Inc. believes that the information contained in this 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. The information in the sheet was written based on the best knowledge and experience currently

available.

Revision information Hazard identification: Prevention

Hazard identification: Response

Hazard identification: Supplemental information

First-aid measures: Eye contact

First-aid measures: Most important symptoms/effects, acute and delayed

Accidental release measures: Personal precautions, protective equipment and emergency

procedures

Exposure controls/personal protection: Other Toxicological information: Acute toxicity

GHS: Classification

Material name: Rimadyl® (Carprofen) Sterile Injectable Solution

On inventory (yes/no)*

Yes