

SAFETY DATA SHEETS

This SDS packet was issued with item:

078912996

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

078912997 078919761 078919762 078919763 078931871

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

078912998

MATERIAL SAFETY DATA SHEET

May be used to comply with
 OSHA's Hazard Communication
 Standard. 29 CFR 1910.1200.
 Standard must be consulted
 for specific requirements.

U.S. DEPARTMENT OF LABOR
 Occupational Safety & Health Administration
 (Non-Mandatory Form)
 Form Approved
 OMB No. 1218-0072

IDENTITY (As Used on Label and List) OtiRinse Drying/Cleansing Solution	<i>Note: Blank spaces are not permitted. If any item is not applicable or no information is available, the space must be marked to indicate that.</i>
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SECTION 1: PRODUCT INFORMATION

MANUFACTURER: DVM Pharmaceuticals, Inc. 50 NW 176 Street Miami, FL 33169	EMERGENCY TELEPHONE: 800-367-4902 Date of Issue: 1999	PRODUCT NAME: OtiRinse Drying/Cleansing Solution CHEMICAL NAME AND SYNONYMS: N/A CHEMICAL FORMULA: N/A CHEMICAL FAMILY: Compounded Product
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SECTION 2: HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components (Specific Chemical Identity Name(s)): * - Indicates Trade Secret

CAS #	HAZARDOUS INGREDIENTS	%	EXPOSURE LIMIT (SOURCE)	CARCINOGEN
N/A	NONE	-	N/A	N/A

Identity Information: (mixture) A proprietary, non-hazardous mixture of cosmetic grade ingredients.

SECTION 3: SARA TITLE III/SECTION 313 SUPPLIER NOTIFICATION

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and of CFR 372:

CAS #	CHEMICAL NAME	PERCENT BY WEIGHT
This product contains no 313 chemicals.		

SECTION 4: HEALTH HAZARD DATA AND FIRST AID

Occupational Exposure Limit: Not Established	Carcinogenicity: Not established, but none of the ingredients are considered carcinogenic.	Primary Routes of Entry: Skin, eyes and ingestion.
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SYMPTOMS AND EFFECTS OF OVEREXPOSURE	ROUTE OF ENTRY	EMERGENCY AND FIRST AID PROCEDURES
May cause irritation to the skin.	Skin	Wash with plenty of soap and water.
May cause eye irritation.	Eyes	Flush immediately with large amounts of water for fifteen minutes. Seek medical attention if irritation persists.
Harmful if swallowed.	Ingestion	Seek immediate medical attention.

SECTION 5: SPECIAL PROTECTION INFORMATION

EYE PROTECTION: Goggles recommended	RESPIRATORY PROTECTION: N/A
PROTECTIVE CLOTHING: Rubber gloves recommended	VENTILATION: Local Exhaust: Acceptable
OTHER PROTECTIVE EQUIPMENT: None needed	Special: N/A Mechanical(General): Acceptable
	Other: N/A

SECTION 6: STORAGE AND SPECIAL HANDLING

Use normal good storage and handling practices for liquids. Store at room temperature. Avoid contact with skin and eyes.

SECTION 7: SPILL OR LEAK PROCEDURES

PRECAUTIONS IN CASE OF SPILLS OR LEAK: Simply mop up.

WASTE DISPOSAL METHOD: No special method.

RCRA/CERCLA HAZARDOUS WASTE: Not applicable.

EMERGENCY TELEPHONE NUMBER: 800-367-4902

SECTION 8: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: None; aqueous based product (Method used: N/A)

FLAMMABLE LIMITS: N/A

EXTINGUISHING MEDIA: N/A

UNUSUAL FIRE AND EXPLOSION HAZARDS: None.

SPECIAL FIRE FIGHTING PROCEDURES: N/A

SECTION 9: STABILITY DATA

STABILITY: Stable Unstable HAZARDOUS POLYMERIZATION: Will not occur May occur

INCOMPATIBILITY (CONDITIONS TO AVOID): Strong oxidizing agents.

HAZARDOUS DECOMPOSITION BYPRODUCTS: Carbon monoxide and/or carbon dioxide.

SECTION 10: PHYSICAL DATA

APPEARANCE: Clear, colorless liquid.

VAPOR PRESSURE (mmHg): N/A

ODOR: Characteristic odor.

VAPOR DENSITY (Air = 1): N/A

SOLUBILITY IN WATER: Complete

MELTING POINT: Not established.

SPECIFIC GRAVITY (H₂O = 1): 1.008

EVAPORATION RATE (Butyl Acetate = 1): N/A

BOILING POINT: 212°F

pH LEVEL: 2.0 – 2.7

PERCENT VOLATILE by VOLUME (%): 91.4%

SECTION 11: ADDITIONAL COMMENTS

None.

NOTICE: The information herein is given by DVM Pharmaceuticals, Inc. in good faith, but no warranty, expressed or implied is made.



SAFETY DATA SHEET

122000009857

OtiRinse

Version 1.0

Revision Date 03/26/2013

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

Product Name: OtiRinse
MSDS Number: 122000009857

Company

BAYER HEALTHCARE LLC
Animal Health Division
12707 Shawnee Mission Parkway
(West 63rd)
Shawnee, KS 66216-1846
USA
(800) 633-3796

In case of emergency: (800) 422-9874
Chemtec: (800) 424-9300
BAYER INFORMATION PHONE:(800) 633-3796
INTERNATIONAL:(703) 527-3887

2. HAZARDS IDENTIFICATION**Emergency Overview**

Form: liquid
Causes eye irritation.

GHS Classification:

Not a dangerous substance / mixture according to GHS.

GHS Label element:

Not a dangerous substance / mixture according to GHS.

Hazard Communication (29CFR 1910.1200)

This product is a mixture. Health hazard information is based on its components.

OtiRinse

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Weight percent	Components	CAS-No.
1%	Propane-1,2-diol	57-55-6
1%	Benzyl Alcohol	100-51-6

4. FIRST AID MEASURES

General advice: Take off all contaminated clothing immediately.

If inhaled: Remove to fresh air. Call a physician immediately.

In case of skin contact: After contact with skin, wash immediately with plenty of soap and water. If skin reactions occur, contact a physician.

In case of eye contact: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

If swallowed: If swallowed, seek medical advice immediately and show this container or label.

Most important symptoms and effects, both acute and delayed : No information available.
No information available.

Notes to physician : No information available.

Contact Number: Use the Bayer Emergency Number in Section 1

5. FIREFIGHTING MEASURES

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media: High volume water jet

Specific hazards during firefighting: Fire may cause evolution of: Carbon monoxide Carbon dioxide (CO₂)

Special protective equipment for firefighters: In the event of fire, wear self-contained breathing apparatus.

Further information: Prevent fire extinguishing water from contaminating surface water or the ground water system.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Use personal protective equipment.

Methods for cleaning up: Cover spilt product with liquid-binding material (sand, silica gel, acid binder, universal binder, hybilat). Take up mechanically and fill into labelled, closable containers.

7. HANDLING AND STORAGE

Handling:

Industrial uses: Avoid formation of aerosol. Avoid contact with skin, eyes and clothing.

Industrial uses: Take measures to prevent the build up of electrostatic charge. Keep away from open flames, hot surfaces and sources of ignition.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Propane-1,2-diol (57-55-6)

Benzyl Alcohol (100-51-6)

Respiratory protection:

Recommended Filter type: Organic vapor with prefilter

Hand protection:

Chemically resistant gloves.

Eye protection:

Safety glasses

Other protective measures:

Wear suitable protective equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	No applicable information is available
Colour:	No applicable information is available
Odour:	No applicable information is available
Odour Threshold:	No applicable information is available
Melting point:	No applicable information is available
Boiling point/boiling range:	No applicable information is available
Density:	No applicable information is available

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Bulk density:	No applicable information is available
Vapour pressure:	No applicable information is available
Viscosity, dynamic:	No applicable information is available
Viscosity, kinematic:	No applicable information is available
Flow time:	No applicable information is available
Surface tension:	No applicable information is available
Miscibility with water:	no data available
Water solubility:	No applicable information is available
pH:	No applicable information is available
Relative density:	No applicable information is available
Partition coefficient:	No applicable information is available
Solubility(ies):	No applicable information is available
Flash point:	No applicable information is available
Flammability (solid, gas):	No applicable information is available
Ignition temperature:	No applicable information is available
Explosion limits:	No applicable information is available

10. STABILITY AND REACTIVITY

Conditions to avoid: no data available

Materials to avoid: Oxidizing agents

Hazardous reactions: None known.

Thermal decomposition:

no data available

Hazardous decomposition products:

Carbon monoxide, Carbon dioxide (CO₂)

Oxidizing properties:

No statements available.

Impact Sensitivity:

no data available

11. TOXICOLOGICAL INFORMATION

Other information on toxicity:

No data is available on the product itself.

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Acute oral toxicity:

Propane-1,2-diol

LD50 rat: 19,400 - 36,000 mg/kg

Benzyl Alcohol

LD50 rat: 1,230 mg/kg

Acute inhalation toxicity:

Propane-1,2-diol

LC50 rabbit: > 317 mg/l, 2 h

Benzyl Alcohol

LC50 rat: > 4.1 mg/l, 4 h

Acute dermal toxicity:

Propane-1,2-diol

LD50 rabbit: 20,800 mg/kg

Benzyl Alcohol

LD50 rabbit: > 2,000 mg/kg

Skin irritation:

Propane-1,2-diol

rabbit

slight irritation

Benzyl Alcohol

Result: Mild skin irritation

Eye irritation:

Propane-1,2-diol

rabbit

slight irritation

Benzyl Alcohol

rabbit

Result: Mild eye irritation

Sensitisation:

Propane-1,2-diol

Human experience

Result: Does not cause skin sensitization.

Benzyl Alcohol

guinea pig

Result: Did not cause sensitization on laboratory animals.

Method: Magnusson and Kligmann maximization test

Subacute, subchronic and prolonged toxicity:

Benzyl Alcohol

NOEL 400 mg/kg, rat, Exposure time 90-day

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Genotoxicity in vitro:

Propane-1,2-diol

Ames test Bacteria

Result: negative

Benzyl Alcohol

Ames test

Result: negative

Genotoxicity in vivo:

Benzyl Alcohol

Result: No indication of mutagenic effects.

Teratogenicity:

Benzyl Alcohol

Result: Did not show teratogenic effects in animal experiments.

Carcinogenicity:

No Carcinogenic substances as defined by IARC, NTP and/or OSHA

STOT - single exposure:

no data available

STOT - repeated exposure:no data available

12. ECOLOGICAL INFORMATION**General advice:**

Do not allow to enter surface waters or groundwater. No data is available on the product itself.

Toxicity to fish:

Propane-1,2-diol

Acute Fish toxicity: LC50 > 20,000 mg/l

Test species: Pimephales promelas (fathead minnow) Duration of test: 96 h

Benzyl Alcohol

Acute Fish toxicity: LC50 10 mg/l

Test species: Lepomis macrochirus (Bluegill) Duration of test: 96 h

Toxicity to daphnia and other aquatic invertebrates:

Propane-1,2-diol

LC50 34,400 mg/l

Test species: Daphnia magna (Water flea) Duration of test: 48 h

Benzyl Alcohol

EC50 55 mg/l

Test species: Daphnia magna (Water flea) Duration of test: 24 h

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Toxicity to algae:

Benzyl Alcohol
IC50 > 100 mg/l
Duration of test: 72 h

Toxicity to bacteria:

Propane-1,2-diol
> 20,000 mg/l
tested on: Pseudomonas putida

Benzyl Alcohol
EC50 71.4 mg/l
tested on: Photobacterium phosphoreum
Duration of test: 0.5 h

Biodegradability:

Propane-1,2-diol
rapidly biodegradable

Benzyl Alcohol
92 - 96 %, 28 d rapidly biodegradable
Method: OECD TG 301 C

13. DISPOSAL CONSIDERATIONS

If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

Waste disposal should be in accordance with existing federal, state and local environmental control laws.

14. TRANSPORT INFORMATION**Land transport (CFR)****Non-Regulated****Sea transport (IMDG)****Non-Regulated****Air transport (ICAO / IATA cargo aircraft only)****Non-Regulated****Air transport (ICAO / IATA passenger and cargo aircraft)****Non-Regulated**

15. REGULATORY INFORMATION

OtiRinse

Version 1.0

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US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A)**Components**

None

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required**Components**

None

US. EPA CERCLA Hazardous Substances (40 CFR 302) Components

None

Massachusetts, New Jersey or Pennsylvania Right to Know Substance Lists

Weight percent	Components	CAS-No.
1 - 5%	Propane-1,2-diol	57-55-6
1 - 5%	Benzyl Alcohol	100-51-6

California Prop. 65

To the best of our knowledge, this product does not contain any of the listed chemicals, which the state of California has found to cause cancer, birth defects or other reproductive harm.

OSHA Hazcom Standard Rating Hazardous

16. OTHER INFORMATION**Further information**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Material Safety Data Sheet
ISO/DIS 11014 / 29 CFR 1910.1200 / ANSI Z400.1

Printing date 01/28/2015

Reviewed on 01/28/2015

1 Identification

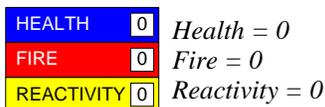
- **Product identifier**
- **Trade name:** **LEGEND Injectable Solution (10 mg/mL)**
- **Relevant identified uses of the substance or mixture and uses advised against Veterinary medicine**
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Merial Limited
3239 Satellite Blvd.
Duluth, Ga. 30096-4640
1-888-MERIAL 1 (1-888-637-4251)
- **Emergency telephone number:**
Spill Information:
CHEMTREC® 1-800-424-9300
CHEMTREC® International 1+703-527-3887
International calls 011+703-527-3887
Reverse charges.
Emergency Information: CHEMTREC International 1 + 703-527-3887
Collect calls accepted

2 Hazard(s) identification

- **Classification of the substance or mixture**
The substance is not classified according to the Globally Harmonized System (GHS).
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC Not applicable.**
- **Label elements**
- **GHS label elements** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



- **HMIS-ratings (scale 0 - 4)**



- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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Reviewed on 01/28/2015

Trade name: LEGEND Injectable Solution (10 mg/mL)

3 Composition/information on ingredients

- **Chemical characterization: Substances**
- **CAS No. Description**
Non hazardous substance
- **Vaccine components**
- **Liquid component contains: Inactivated salmonella gallinarum**

4 First-aid measures

- **Description of first aid measures**
- **General information: No special measures required.**
- **After inhalation: Remove to fresh air. Call a physician immediately.**
- **After skin contact:**
After contact with skin, wash immediately with plenty of soap and water. If skin reactions occur, contact a physician.
- **After eye contact:**
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- **After swallowing: If swallowed, seek medical advice immediately and show this container or label.**
- **Most important symptoms and effects, both acute and delayed**
In case of symptomatic effect provide treatment to maintain life functions.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents: Water spray, carbon dioxide, foam or dry chemical powder.**
- **For safety reasons unsuitable extinguishing agents: Water with full jet**
- **Special hazards arising from the substance or mixture**
Fire may cause evolution of: Carbon monoxide, Carbon dioxide (CO₂)
- **Advice for firefighters**
- **Protective equipment: Wear self-contained respiratory protective device.**

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions: Do not allow product to reach sewage system or any water course.**
- **Methods and material for containment and cleaning up:**
Cover spilt product with liquid-binding material (sand, silica gel, acid binder, universal binder, hybilat). Take up mechanically and fill into labelled, closable containers.
- **Reference to other sections** No dangerous substances are released.

7 Handling and storage

- **Precautions for safe handling** No special measures required.

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Printing date 01/28/2015

Reviewed on 01/28/2015

Trade name: LEGEND Injectable Solution (10 mg/mL)

- *Conditions for safe storage, including any incompatibilities*
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store only in the original container.
- **Information about storage in one common storage facility:** Not required.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:** Not required.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
 - Wash hands before breaks and at the end of work.
 - Avoid contact with the eyes and skin.
 - Do not eat, drink, smoke or inhale.
 - Do not store food in the working area.
- **Breathing equipment:** Recommended Filter type: Organic vapor with prefilter
- **Protection of hands:** Chemically resistant gloves.
- **Eye protection:** Safety glasses
- **Body protection:** Not required under normal conditions of use.

9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

Form:	Liquid
Color:	Clear, colorless
Odor:	Characteristic
- **pH-value:** 6.5 - 8.0 at (77 °F (25 °C)) (undiluted)
- **Change in condition**
 - Melting point/Melting range:** Undetermined.
 - Boiling point/Boiling range:** ca. 100 °C
- **Flash point:** < 200 °F (93.33 °C)
- **Ignition temperature:** Will not burn.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Specific gravity:** Not determined.
- **Relative density:** 1.00 g/cm³ at 77 °F (25 °C)
- **Solubility in / Miscibility with**

Water:	Soluble.
Organic solvents:	0.0 %

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Reviewed on 01/28/2015

Trade name: LEGEND Injectable Solution (10 mg/mL)

· **Other information** No further relevant information available.

10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** Oxidizing agents
- **Hazardous decomposition products:** Carbon monoxide, Carbon dioxide (CO₂)

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritating effect known.
- **on the eye:** No irritating effect known.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
 When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.
 The substance is not subject to classification.
- **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

Substance is not listed.

· **NTP (National Toxicology Program)**

Substance is not listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

Substance is not listed.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
 Water hazard class 1 (Self-assessment): slightly hazardous for water
 Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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Reviewed on 01/28/2015

Trade name: LEGEND Injectable Solution (10 mg/mL)

· **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:** Disposal must be made according to official regulations.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- | | |
|--|-----------------|
| · UN-Number | |
| · DOT, ADR, ADN, IMDG, IATA | Void |
| · UN proper shipping name | |
| · DOT, ADR, ADN, IMDG, IATA | Void |
| · Transport hazard class(es) | |
| · DOT, ADR, ADN, IMDG, IATA | |
| · Class | Void |
| · Packing group | |
| · DOT, ADR, IMDG, IATA | Void |
| · Environmental hazards: | |
| · Marine pollutant: | No |
| · Special precautions for user | Not applicable. |
| · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| · UN "Model Regulation": | - |

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **SARA**

- **Section 355 (extremely hazardous substances):**

Substance is not listed.

- **Section 313 (Specific toxic chemical listings):**

Substance is not listed.

- **TSCA (Toxic Substances Control Act):**

Substance is not listed.

- **CA Proposition 65**

- **Chemicals known to cause cancer:**

Substance is not listed.

- **Chemicals known to cause reproductive toxicity for females:**

Substance is not listed.

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Reviewed on 01/28/2015

Trade name: LEGEND Injectable Solution (10 mg/mL)

· **Chemicals known to cause reproductive toxicity for males:**

Substance is not listed.

· **Chemicals known to cause developmental toxicity:**

Substance is not listed.

· **Carcinogenesis potential categories**

· **EPA (Environmental Protection Agency)**

Substance is not listed.

· **TLV (Threshold Limit Value established by ACGIH)**

Substance is not listed.

· **MAK (German Maximum Workplace Concentration)**

Substance is not listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

Substance is not listed.

· **GHS label elements** Void

· **Hazard pictograms** Void

· **Signal word** Void

· **Hazard statements** Void

· **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

To the best of our knowledge, the information contained herein is accurate. However, neither Merial or any of its subsidiaries or parents assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, Merial cannot guarantee that these are the only hazards that exist.

· **Contact:** MSDS Coordinator, msds@merial.com

· **Date of preparation / last revision** 01/28/2015 / -

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

USA