

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

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.

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
---	--	---

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.
---	--	--

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 <input checked="" type="checkbox"/> Unstable <input type="checkbox"/>	HAZARDOUS POLYMERIZATION: Will not occur <input checked="" type="checkbox"/> May occur <input type="checkbox"/>
---	---

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 (H ₂ O = 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

OtiRinse

Version 2.0 Revision Date: 03/25/2019 SDS Number: 122000009857 Date of last issue: 03/26/2013
Date of first issue: 03/26/2013

SECTION 1. IDENTIFICATION

Product information

Product Name: OtiRinse
Synonyms: ExpertCare Ear Wash
SDS Number: 122000009857

Use : veterinary medicine

Company

Bayer HealthCare, LLC
Animal Health Division
12707 Shawnee Mission Parkway
(West 63rd)
Shawnee, KS 66216-1846
UNITED STATES OF AMERICA
(800) 633-3796

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

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Benzyl alcohol	100-51-6	1
Nonoxynol 12	68412-54-4	0.2
Propane-1,2-diol	57-55-6	1

SECTION 4. FIRST AID MEASURES

General advice : No hazards which require special first aid measures.

If inhaled : Not an expected entry route.

In case of skin contact : If skin reactions occur, contact a physician.

SAFETY DATA SHEET

OtiRinse

Version	Revision Date:	SDS Number:	Date of last issue: 03/26/2013
2.0	03/25/2019	122000009857	Date of first issue: 03/26/2013

In case of eye contact	:	Flush eyes with water as a precaution.
If swallowed	:	In case of accidental ingestion, contact your regional poison center or physician immediately.
Most important symptoms and effects, both acute and delayed	:	No information available.
Protection of first-aiders	:	No special precautions are necessary for first aid responders.
Notes to physician	:	No information available.

SECTION 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 fire-fighting	:	Fire may cause evolution of: Carbon monoxide (CO) Carbon dioxide (CO ₂)
Further information	:	Prevent fire extinguishing water from contaminating surface water or the ground water system.
Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Avoid formation of aerosol.
Methods and materials for containment and cleaning up	:	Cover spilled product with liquid-binding material (sand, silica gel, acid binder, universal binder, hybilat). Take up mechanically and fill into labeled, closable containers.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	No special protective measures against fire required.
Advice on safe handling	:	Industrial uses: Avoid formation of aerosol.
Conditions for safe storage	:	Store at temperatures and conditions as indicated on the product label.

SAFETY DATA SHEET

OtiRinse

Version 2.0 Revision Date: 03/25/2019 SDS Number: 122000009857 Date of last issue: 03/26/2013
Date of first issue: 03/26/2013

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Propane-1,2-diol	57-55-6	TWA	10 mg/m3	US WEEL
Benzyl alcohol	100-51-6	TWA	10 ppm	US WEEL

Personal protective equipment

Respiratory protection : Recommended Filter type:
Organic vapor with prefilter

None required for consumer use of this product.

Hand protection
Material : Chemically resistant gloves.

Remarks : None required for consumer use of this product.

Eye protection : Safety glasses
None required for consumer use of this product.

Protective measures : Wear suitable protective equipment.
Please consult label for end-user requirements.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Explosive properties : No data available
Oxidizing properties : No data available
Impact sensitivity : No data available
Minimum ignition energy : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No data available
Chemical stability : No data available
Possibility of hazardous reactions : No data available

SAFETY DATA SHEET

OtiRinse

Version	Revision Date:	SDS Number:	Date of last issue: 03/26/2013
2.0	03/25/2019	122000009857	Date of first issue: 03/26/2013

Conditions to avoid	:	No data available
Incompatible materials	:	Oxidizing agents
Hazardous decomposition products	:	Carbon monoxide (CO) Carbon dioxide (CO ₂)

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute oral toxicity	:	Acute toxicity estimate (ATE): > 5,000 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate (ATE): > 200 mg/l Exposure time: 4 h Test atmosphere: vapour Method: Calculation method

Components:

Benzyl alcohol:

Acute oral toxicity	:	LD50 (Rat, male): 1,620 mg/kg Assessment: The component/mixture is moderately toxic after single ingestion.
Acute inhalation toxicity	:	Assessment: The component/mixture is moderately toxic after short term inhalation.

Propane-1,2-diol:

Acute oral toxicity	:	LD50 (Rat): 22,000 mg/kg Assessment: No adverse effect has been observed in acute toxicity tests.
Acute inhalation toxicity	:	LC50 (Rabbit): > 158.5 mg/l Exposure time: 4 h Test atmosphere: vapour Assessment: The substance or mixture has no acute inhalation toxicity
Acute dermal toxicity	:	LD50 (Rabbit): > 5,000 mg/kg Assessment: No adverse effect has been observed in acute toxicity tests.

Skin corrosion/irritation

Components:

Benzyl alcohol:

Species	:	Rabbit
Method	:	OECD 404

SAFETY DATA SHEET

OtiRinse

Version	Revision Date:	SDS Number:	Date of last issue: 03/26/2013
2.0	03/25/2019	122000009857	Date of first issue: 03/26/2013

Result : No skin irritation

Propane-1,2-diol:

Species : Rabbit
Result : No skin irritation

Serious eye damage/eye irritation

Components:

Benzyl alcohol:

Species : Rabbit
Result : Irritation to eyes, reversing within 7 days
Method : OECD 405

Propane-1,2-diol:

Species : Rabbit
Result : No eye irritation

Respiratory or skin sensitisation

Components:

Benzyl alcohol:

Species : Guinea pig
Method : Magnusson and Kligmann maximization test
Result : Did not cause sensitisation on laboratory animals.

Propane-1,2-diol:

Species : Human experience
Result : Does not cause skin sensitisation.

Species : Guinea pig
Method : OECD 406
Result : Does not cause skin sensitisation.

Germ cell mutagenicity

Components:

Benzyl alcohol:

Genotoxicity in vitro : Test Type: Ames test
Result: negative

Genotoxicity in vivo : Result: No indication of mutagenic effects.

Propane-1,2-diol:

Genotoxicity in vitro : Test Type: Ames test
Test system: Bacteria
Metabolic activation: yes
Method: OECD 471

SAFETY DATA SHEET

OtiRinse

Version	Revision Date:	SDS Number:	Date of last issue: 03/26/2013
2.0	03/25/2019	122000009857	Date of first issue: 03/26/2013

Result: negative

Test system: mammalian cells
Method: OECD 476
Result: negative

Genotoxicity in vivo : Method: OECD 478
Result: negative

Carcinogenicity

Components:

Propane-1,2-diol:

Species : Rat
Application Route : Oral
Exposure time : 730 days
Frequency of Treatment : once daily
Result : negative

IARC No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Components:

Propane-1,2-diol:

Effects on fertility : Species: Rat, female
Application Route: Oral
General Toxicity - Parent: NOAEL: 1,600 mg/kg
Result: Animal testing did not show any effects on fertility.

STOT - single exposure

Components:

Benzyl alcohol:

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure

Components:

Benzyl alcohol:

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

SAFETY DATA SHEET

OtiRinse

Version	Revision Date:	SDS Number:	Date of last issue: 03/26/2013
2.0	03/25/2019	122000009857	Date of first issue: 03/26/2013

Repeated dose toxicity

Components:

Benzyl alcohol:

Species	:	Rat
NOAEL	:	400 mg/kg
Exposure time	:	90-day

Propane-1,2-diol:

Species	:	Rat
NOAEL	:	50,000 mg/kg
Application Route	:	Oral
Exposure time	:	24 month

Species	:	Rat
NOAEL	:	1 mg/l
Application Route	:	Inhalation
Exposure time	:	3 month
Number of exposures	:	Once daily

Further information

Components:

Benzyl alcohol:

Remarks	:	Dermal absorption possible
Remarks	:	If inhaled: irritations Shortness of breath Cough
Remarks	:	If swallowed Vomiting Nausea Irritation of mucous membranes in the mouth, throat, gullet and gastro-intestinal tract after swallowing.
Remarks	:	Systemic toxicity Headache Nausea CNS disorders Ataxia (uncontrolled movements) Unconsciousness cessation of breathing

SAFETY DATA SHEET

OtiRinse

Version	Revision Date:	SDS Number:	Date of last issue: 03/26/2013
2.0	03/25/2019	122000009857	Date of first issue: 03/26/2013

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Benzyl alcohol:

Toxicity to fish	:	LC50 (Lepomis macrochirus (Bluegill sunfish)): 10 mg/l Exposure time: 96 h Test Type: Acute Fish toxicity
Toxicity to microorganisms	:	EC50 (Photobacterium phosphoreum): 71.4 mg/l Exposure time: 0.5 h

Ecotoxicology Assessment

Acute aquatic toxicity	:	Toxic to aquatic life.
------------------------	---	------------------------

Propane-1,2-diol:

Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 40,613 mg/l Exposure time: 96 h Test Type: Acute Fish toxicity
Toxicity to daphnia and other aquatic invertebrates	:	LC50 (Dendraster excentricus (Sand dollar)): 18,340 mg/l Exposure time: 48 h
Toxicity to microorganisms	:	NOEC (Pseudomonas putida): 20,000 mg/l Exposure time: 18 h

Ecotoxicology Assessment

Acute aquatic toxicity	:	slightly hazardous to water
------------------------	---	-----------------------------

Persistence and degradability

Components:

Benzyl alcohol:

Biodegradability	:	Result: rapidly biodegradable Biodegradation: 92 - 96 % Exposure time: 28 d Method: OECD 301 C
------------------	---	---

Propane-1,2-diol:

Biodegradability	:	Result: Readily biodegradable. Biodegradation: 87 - 92 % Exposure time: 28 d Method: OECD 301 C
------------------	---	--

SAFETY DATA SHEET

OtiRinse

Version	Revision Date:	SDS Number:	Date of last issue: 03/26/2013
2.0	03/25/2019	122000009857	Date of first issue: 03/26/2013

Bioaccumulative potential

Components:

Benzyl alcohol:

Partition coefficient: n-octanol/water : log Pow: 1.05

Propane-1,2-diol:

Bioaccumulation : Bioconcentration factor (BCF): 0.09

Partition coefficient: n-octanol/water : log Pow: -1.07

Mobility in soil

No data available

Other adverse effects

Product:

Components:

Propane-1,2-diol:

Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : 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)

SECTION 14. TRANSPORT INFORMATION

US Land transport (CFR)
non-regulated

Sea transport (IMDG)
non-regulated

Air transport (IATA)
non-regulated

SAFETY DATA SHEET

OtiRinse

Version 2.0 Revision Date: 03/25/2019 SDS Number: 122000009857 Date of last issue: 03/26/2013
Date of first issue: 03/26/2013

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Hydrochloric acid	7647-01-0	5000	*

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : No SARA Hazards

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489):

Propane-1,2-diol	57-55-6	1 %
Benzyl alcohol	100-51-6	1 %

Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

Hydrochloric acid	7647-01-0	0.1249 %
Benzoic acid	65-85-0	0.1 %
Sodium hydroxide	1310-73-2	0.0249 %

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

Hydrochloric acid	7647-01-0	0.1249 %
Benzoic acid	65-85-0	0.1 %
Sodium hydroxide	1310-73-2	0.0249 %

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US State Regulations

Massachusetts Right To Know

Benzyl alcohol	100-51-6
Hydrochloric acid	7647-01-0

Pennsylvania Right To Know

SAFETY DATA SHEET

OtiRinse

Version	Revision Date:	SDS Number:	Date of last issue: 03/26/2013
2.0	03/25/2019	122000009857	Date of first issue: 03/26/2013

Propane-1,2-diol	57-55-6
Benzyl alcohol	100-51-6
Hydrochloric acid	7647-01-0
Benzoic acid	65-85-0
Sodium hydroxide	1310-73-2

Maine Chemicals of High Concern

Product does not contain any listed chemicals

Vermont Chemicals of High Concern

Product does not contain any listed chemicals

Washington Chemicals of High Concern

Product does not contain any listed chemicals

New York City Hazardous Substances

Hydrochloric acid	7647-01-0
Lactic acid	50-21-5
Benzoic acid	65-85-0
Sodium hydroxide	1310-73-2

The components of this product are reported in the following inventories:

TSCA : Substance(s) not listed on TSCA inventory

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION

Further information

NFPA 704:

Health - 0 Flammability - 1 Instability - 0 Others -

HMIS® IV:

Health - 0 Flammability - 1 Instability - 0 Others -

Full text of other abbreviations

US WEEL : USA. Workplace Environmental Exposure Levels (WEEL)
US WEEL / TWA : 8-hr TWA

Revision Date : 03/25/2019

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 guide 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.

SAFETY DATA SHEET

OtiRinse

Version	Revision Date:	SDS Number:	Date of last issue: 03/26/2013
2.0	03/25/2019	122000009857	Date of first issue: 03/26/2013

US / EN

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)**

HEALTH	0	Health = 0
FIRE	0	Fire = 0
REACTIVITY	0	Reactivity = 0

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

USA

Material Safety Data Sheet

ISO/DIS 11014 / 29 CFR 1910.1200 / ANSI Z400.1

Printing date 01/28/2015

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.

USA

Material Safety Data Sheet

ISO/DIS 11014 / 29 CFR 1910.1200 / ANSI Z400.1

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 %

USA

Material Safety Data Sheet

ISO/DIS 11014 / 29 CFR 1910.1200 / ANSI Z400.1

Printing date 01/28/2015

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.

USA

Material Safety Data Sheet

ISO/DIS 11014 / 29 CFR 1910.1200 / ANSI Z400.1

Printing date 01/28/2015

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.

USA

Material Safety Data Sheet

ISO/DIS 11014 / 29 CFR 1910.1200 / ANSI Z400.1

Printing date 01/28/2015

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