



MATERIAL SAFETY DATA SHEET
SUPRELORIN[®] F (deslorelin acetate) 4.7 mg Implant
Product Codes: 44402 and 44405

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATIONS AND OF THE COMPANY UNDERTAKING

Product Name SUPRELORIN[®] F (deslorelin acetate) 4.7 mg Implant
Product Description Veterinary implant containing deslorelin acetate 4.7 mg
Manufacturer/Supplier Virbac AH, Inc.
Address P.O. Box 162059
Fort Worth, Texas 76161
Phone Number (855) 647-3747 for Technical Support
Chemtrec Number (24 hour) (800) 424-9300
Emergency Numbers: (800) 338-3568 for Human and Animal Medical Emergencies
MSDS Revision Date: July 16, 2012
Supersedes MSDS Dated: N/A

Material Safety Data Sheet in compliance with OSHA's Hazcom Standard (29 CFR 1910.1200)

2. HAZARDS IDENTIFICATION

Emergency Overview

HAZARDOUS!

May impair fertility.
Harmful in contact with skin.
Avoid contact with skin.
Keep out of reach of children.
Read entire label before use.

Routes of Entry

Eye contact - Skin contact - Inhalation

Carcinogenic Status

No carcinogenicity studies have been conducted with deslorelin.

Target Organs

Eyes - Skin

Health Effects - Eyes

Contact with eyes may cause slight irritation.

Health Effects - Skin

Contact with skin may cause slight irritation.

Health Effects - Ingestion

Ingestion of large quantities of this material may cause gastrointestinal effects such as nausea, vomiting, diarrhea, and abdominal cramps.

Health Effects - Inhalation

In males, single doses (micrograms) may lead to an increase in testosterone.

In males, chronic exposure (micrograms) may lead to decreased libido, decreased erections, hot flushes, breast swelling or tenderness, and decreased testicular size.

In females, single doses (micrograms) may cause irregular menses.

In females, chronic exposure (micrograms) may lead to decreased libido, hot flushes, irregular menses or annovulation, mood changes, vaginal dryness, headaches, and breast atrophy or enlargement.



3. COMPOSITION/INFORMATION ON INGREDIENTS

Component Name	CAS Number	Concentration
Deslorelin Acetate	57773-65-6	

4. FIRST AID MEASURES

Eyes

Immediately flood the eye with plenty of water for at least 15-20 minutes, holding the eye open. Obtain medical attention if irritation persists.

Skin

Thoroughly wash skin immediately with water and soap. Rinse with water for at least 15 minutes. Obtain medical attention if irritation persists.

Ingestion

Call a poison control center or doctor immediately for treatment advice. Do NOT induce vomiting. Do not give anything by mouth to an unconscious person.

Inhalation

Remove person to fresh air. Seek medical attention if symptoms persist.

Advice to Physicians

Treat symptomatically.

5. FIRE - FIGHTING MEASURES

Extinguishing Media

Use foam, dry chemical or carbon dioxide. Keep containers and surroundings cool with water spray.

Unusual Fire and Explosion Hazards

Can release hazardous vapors during a fire.

Protective Equipment for Fire-Fighting

Wear full protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Wear appropriate protective clothing. Wipe up and transfer into suitable containers for recovery or disposal.

7. HANDLING AND STORAGE

Store at 2° C to 8°C (refrigerate, do not freeze).

Store in a cool dry place. Keep away from children.

Wash hands after dispensing and before eating, drinking or smoking. Avoid breathing vapors.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Standards

Not established

Engineering Control Measures

No specific measures necessary.

Respiratory Protection

Not required under normal conditions of use.



8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Hand Protection

Protective gloves.

Eye Protection

Not required under normal conditions of use.

Body Protection

Normal work wear.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid
Color	Opaque, white to pale yellow cylinder
Odor	No data available
pH	No data available
Specific Gravity	No data available
Boiling Range/Point (°C/F)	No data available
Melting Point (°C/F)	Approximately 60°C
Flash Point (PMCC) (°C/F)	Not flammable
Explosion Limits (%)	No data available
Vapor Pressure	No data available
Density	Approximately 0.95
Solubility in Water	Insoluble in water
Solubility in Organic Solvents	Insoluble in methanol, ethanol, acetone but soluble in other organic solvents such as dichloromethane and hexane.
Vapor Density (Air = 1)	No data available

10. STABILITY AND REACTIVITY

Stability

Stable under normal conditions.

Conditions to Avoid

Do not store above 40°C.

Materials to Avoid

Strong oxidizers

Hazardous Polymerization

Will not occur.

Hazardous Decomposition Products

Oxides of carbon and nitrogen formed upon combustion.

11. TOXICOLOGICAL INFORMATION

See product packaging for additional information.

Limited toxicological information is available for deslorelin. The LHRH (luteinising hormone releasing-hormone or GnRH) agonist buserelin is identical in structure to deslorelin, except for the presence of a tertiary butylated D-serine residue at the 6 position in place of the D-tryptophan in deslorelin. The pharmacological activity of deslorelin and buserelin are similar.

Acute Pharmacological Effects

Deslorelin is a LHRH agonist and has actions similar to LHRH (GnRH) which is the key mediator in the neuroregulation of the secretion of the gonadotropins, luteinising hormone (LH) and follicle stimulating hormone (FSH). LHRH can modify sexual behavior and function by regulating plasma gonadotropins and sex steroid levels.



11. TOXICOLOGICAL INFORMATION

Acute Pharmacological Effects

Deslorelin is absorbed by inhalation or skin absorption. Deslorelin is poorly absorbed from the GI tract. In dogs a single dose of 100 µg/kg was effective in increasing the plasma LH levels but a single oral dose of 100 µg/kg had no effect on plasma LH levels.

Acute Toxicity

Conventional single dose toxicity studies have not been conducted with deslorelin and no published information is available on other LHRH analogues.

Serious Eye damage/Eye Irritation

No relevant studies identified.

Respiratory or Skin Sensitization

No relevant studies identified.

Carcinogenicity

Not considered carcinogenic by NTP, IARC, and OSHA.

Germ Cell Mutagenicity

No relevant studies identified.

Toxicity to Reproduction

No relevant studies identified.

12. ECOLOGICAL INFORMATION

Mobility

No relevant studies identified.

Persistence/Degradability

No relevant studies identified.

Bio-accumulation

No relevant studies identified.

Ecotoxicity

Not recognized as an environmental pollutant.

13. DISPOSAL CONSIDERATIONS

Slurry the implant in surfactant and hot water to melt the implant and release deslorelin content. Then slurry overnight in household bleach to dissolve and deactivate deslorelin. Dispose of solution in accordance with all applicable local and national regulations. Alternatively incinerate implants.

14. TRANSPORT INFORMATION

Contact supplier for transport information.

15. REGULATORY INFORMATION

US REGULATIONS (Federal, State) and INTERNATIONAL CHEMICAL REGISTRATION LAWS

TSCA Listing

This product contains ingredients that are listed on or exempt from listing on the EPA Toxic Substance Control Act Chemical Substance (TSCA) Inventory.

DSL (Canadian) Listing

This product contains ingredients that have not been verified for listing on the Domestic Substance List (DSL).



15. REGULATORY INFORMATION

WHMIS Classification

This product is not a controlled substance under WHMIS.

This product was classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations and the MSDS contains all the information required by these regulations.

MA Right To Know Law

This product contains the following chemicals on the Massachusetts Right to Know Law: None

PA Right To Know Law

This product contains the following chemicals on the Pennsylvania Hazardous Substance List: None

NJ Right To Know Law

This product contains the following chemicals on the New Jersey Workplace Hazardous Substance List: None

California Proposition 65

This product contains the following chemicals which the State of California has found to cause cancer, birth defects or other reproductive harm: None

SARA Title III Sect. 311/312 Categorization

None

SARA Title III Sect. 313

This product contains the following chemicals that are listed in Section 313 at or above de minimis concentrations: None

16. OTHER INFORMATION

NFPA Ratings

NFPA Code for Flammability - 0

NFPA Code for Health - 1

NFPA Code for Reactivity - 0

NFPA Code for Special Hazards – 0

HMIS Ratings

HMIS Code for Flammability - 0

HMIS Code for Health - 1

HMIS Code for Reactivity - 0

HMIS Code for Personal Protection - See Section 8

Abbreviations

ACGIH: American Conference of Governmental Industrial Hygienists

BOD: Biological Oxygen Demand

CAS#: Chemical Abstracts Service Number

FIFRA: Federal Insecticide, Fungicide and Rodenticide Act

IARC: International Agency for Research on Cancer

LC50: Lethal Concentration 50%

LD50: Lethal Dose 50%

N/A: Denotes no applicable information found or available

NTP: National Toxicology Program

OSHA: Occupational Safety and Health Administration

PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit

TLV: Threshold Limit Value

TSCA: Toxic Substance Control Act



16. OTHER INFORMATION

For further information call: (800) 338-3659

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