

Material Safety Data Sheet

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Section 1-Product Information

Product name Leuprolide Acetate

Product Cat. No. RP17321

Section 2-Composition / Information on Ingredients

Substance/Preparation: Substance

Ingredient Name Depo-Lupron, Leuplin, Leuprolide acetate, Leuprorelin

acetate, Lupron, Lupron Depot, TAP-144, TAP-144-SR

CAS No. 74381-53-6

SARA 313 No

Formula $C_{59}H_{84}N_{16}O_{12}.C_2H_4O_2$

Section 3- Hazards Identification

Emergency Overview

Caution The chemical, physical, and toxicological properties of this

product have not been thoroughly investigated. Exercise due

care.

HMIS Rating

Health 1
Flammability 0
Reactivity 0
NFPA Rating
Health 1
Flammability 0
Reactivity 0

For additional information on toxicity, please refer to Section 11.

Section 4- First Aid Measures

Oral Exposure If swallowed, wash out mouth with water provided person is

conscious. Call a physician.

Inhalation Exposure If inhaled, remove to fresh air. If breathing becomes difficult,

call a physician.

Dermal Exposure In case of skin contact, flush with copious amounts of water

for at least 15 minutes. Remove contaminated clothing and

shoes. Call a physician.

Eye Exposure In case of contact with eyes, flush with copious amounts of

water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Section 5- Fire Fighting Measures

Flash Point Not available
Autoignition Temp Not available
Flammability Not available

Extinguishing Media

Suitable Carbon dioxide, dry chemical powder, or appropriate foam.

Water spray

Fire Fighting

Protective Equipment Wear self-contained breathing apparatus and protective

clothing to prevent contact with skin and eves.

Specific Hazard(s) Emits toxic fumes under fire conditions.

Section 6- Accidental Release Measures

Procedure to be Followed in Case of Leak Evacuate area

or Spill

Procedure(s) of Personal Precaution(s) Wear respirator, chemical safety goggles, rubber boots, and

heavy rubber gloves

Methods for Cleaning up Sweep up, place in a bag and hold for waste disposal.

Avoid raising dust. Ventilate area and wash spill site after

material pickup is complete.

Section 7-Handling and Storage

Handling

User Exposure Avoid inhalation. Avoid contact with eyes, skin, and

clothing. Avoid prolonged or repeated exposure.

Storage

Appearance

Suitable Keep tightly closed

Storage at -20°C

Section 8-Exposure Controls/Personal Protection Equipment

Engineering Controls Mechanical exhaust required

Personal Protective equipment

Respiratory Use respirators and components tested and approved under

appropriate government standards such as NIOSH (US) or CEN (EU). Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type

N95 (US) or type P1 (EN 143) dust masks.

Hand Protective gloves

Eye Chemical safety goggles

General Hygiene Measures Wash thoroughly after handling

Section 9- Physical and Chemical Properties

Physical State White powder Property Molecular Weight 1209.4 AMU Not available BP/BP Range Not available MP/MP Range Not available Freezing Point Not available Vapor Pressure Not available Vapor Density Not available Saturated Vapor Conc. Not available SG/Density Not available Not available **Bulk Density** Odor Threshold Not available Volatile% Not available **VOC Content** Not available Water Content Not available Solvent Content Not available **Evaporation Rate** Not available Viscosity Not available Surface Tension Not available Partition Coefficient Not available Decomposition Temp. Not available Flash Point Not available **Explosion Limits** Not available Flammability Not available Autoignition Temp Not available Refractive Index Not available **Optical Rotation** Not available Miscellaneous Data Not available Not available Solubility

Section 10- Stability and Reactivity

Stability

Stable Stable

Materials to Avoid

Hazardous Decomposition Products

Hazardous Decomposition Products

Hazardous Polymerization
Hazardous Polymerization

Strong oxidizing agents

Carbon monoxide, Carbon dioxide, Nitrogen oxides

Will not occur

Section 11- Toxicological Information

Route of Exposure

Skin Contact May cause skin irritation

Skin Absorption May be harmful if absorbed through the skin

Eye Contact May cause eye irritation.

Inhalation Material may be irritating to mucous membranes and upper

respiratory tract, May be harmful if inhaled.

Ingestion May be harmful if swallowed

Signs And Symptoms of Exposure May have

May have actions similar to luteinizing hormone releasing hormone (LH-RH) and gonadotropin releasing hormone (GN-RH) which are the key mediators in the neuroregulation of the secretion of gonadotropins, luteinizing hormone (LH) and follicle stimulating hormone (FSH). LH-RH can modify sexual behavior by regulating plasma gonadotropin and sex steroid levels. To the best of our knowledge, the chemical, physical, and toxicological properties have not been

thoroughly investigated.

TOXICITY DATA

Oral

Rat

> 5000 mg/kg

LD50

Intraperitoneal

Rat

>5 mg/kg LD50

Subcutaneous

Rat

>5 mg/kg LD50

Remarks: Skin and Appendages: Skin: After systemic

exposure: Dermatitis, other

Intravenous

Rat

29900 ug/kg

LD50

Intramuscular

Rat

>2 mg/kg LD50

Remarks: Skin and Appendages: Skin: After systemic

exposure: Dermatitis, other

Oral

> 5000 mg/kg

LD50

Mouse

Remarks: Gastrointestinal: Hypermotility, diarrhea.

Intraperitoneal

Mouse >5 mg/kg

LD50

Remarks: Blood: Changes in spleen.

Subcutaneous

Mouse >5 mg/kg

LD50

Remarks: Skin and Appendages: Skin: After systemic

exposure: Dermatitis, other

Intravenous

Mouse 137 mg/kg

LD50

Intramuscular

Mouse >2 mg/kg LD50

Remarks: Skin and Appendages: Skin: After systemic

exposure: Dermatitis, other

Chronic Exposure - Teratogen

Species Rat
Dose 24 ug/mg
Route of Application Subcutaneous
Exposure Time: 1D PREG

Result Specific Developmental Abnormalities: Musculoskeletal

system. Effects on Embryo or Fetus: Fetotoxicity (except

death, e.g., stunted fetus).

Chronic Exposure - Reproductive Hazard

Result: May cause reproductive disorders.

SpeciesRatDose72 ug/mgRoute of ApplicationSubcutaneousExposure Time8W MALE

Result Paternal Effects: Other effects on male. Paternal Effects:

Testes, epididymis, sperm duct.

SpeciesRatDose24 ug/mgRoute of ApplicationSubcutaneousExposure Time4W PRE

Result Effects on Newborn: Sex ratio. Effects on Fertility:

Pre-implantation mortality (e.g., reduction in number of implants per female; total number of implants per corpora

lutea).

Species Rat

Dose 1800 mg/kg
Route of Application Subcutaneous
Exposure Time 90D MALE

Result Paternal Effects: Prostate, seminal vessicle, Cowper's gland,

accessory glands. Paternal Effects: Testes, epididymis,

sperm duct.

Species Rabbit
Dose 24 ug/mg
Route of Application Subcutaneous
Exposure Time 6D PREG

Result Effects on Embryo or Fetus: Fetotoxicity (except death, e.g.,

stunted fetus). Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of

implants).

Section 12- Ecological Information

No data available.

Section 13- Disposal Considerations

Appropriate Method of Disposal of Substance or Preparation

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

Section 14- Transport Information

DOT

Proper Shipping Name None

Non-Hazardous for Transport This substance is considered to be non-hazardous for

transport.

IATA

Non-Hazardous for Air Transport Non-hazardous for air transport

Section 15- Regulatory Information

EU Additional Classification

S 22-24/25

Safety Statements: Do not breathe dust. Avoid contact with skin and eyes.

US Classification and Label Text

US Statements Caution: Avoid contact and inhalation. Calif. Prop. 65

developmental hazard.

United States Regulatory information

SARA Listed No

United States State Regulatory Information

California Prop - 65

California Prop - 65 This product is or contains chemical(s) known to the state of

California to cause developmental toxicity.

Canada Regulatory information

WHMIS Classification This product has been classified in accordance with the hazard

criteria of the CPR, and the MSDS contains all the information

required by the CPR.

DSL No NDSL No

Section 16- Other Information

GenScript corporation MSDS is believed to be correct but only used as a guide for experienced personnel, GenScript shall not be held liable for any damage resulting from the handling or from contact with the above product.