

Material Safety Data Sheet ANSI Format

Norplant System

Preparation Date 08-Feb-2007 Revision Date Not applicable Revision Number Not applicable

1. PRODUCT AND COMPANY IDENTIFICATION

Product NameNorplant SystemCommon NameNot availableChemical NameNot applicable

SynonymsNorplant, LevonorgestrelProduct UsePharmaceutical product

Classification Hormones and Synthetic Substitutes

Supplier Wyeth

P.O. Box 8299

Philadelphia, PA 19101 USA. Telephone: 1-610-688-4400

Emergency Telephone Number Chemtrec USA, Puerto Rico, Canada 1-800-424-9300

Chemtrec International 1-703-527-3887

2. HAZARDS IDENTIFICATION

Emergency Overview

This contains an active pharmaceutical ingredient that can affect body functions; handle with caution.

Appearance Pharmaceutical implantPhysical StateSolidOdor Not available

Potential Physical Hazards Powders and solids are presumed to be combustible.

Potential Health Effects

EyesNot availableSkinNot availableInhalationNot available

Ingestion

The most common effects may include uterine bleeding irregularities, change in menstrual flow, breast changes (tenderness, pain, enlargement, secretion, lumps), hirsutism, changes in

libido, loss of scalp hair, melasma/chloasma, mood changes, depression, vaginitis, candidiasis, cardiovascular disease, cerebrovascular disease, vascular disease, venous and arterial thrombotic and thromboembolic events, other vascular problems (myocardial infarction, thromboembolism, stroke, hypertension, thromboembolic disorders), hepatic neoplasia, and

gallbladder disease. fibroblast proliferation

May impair fertility. May cause harm to the unborn child. May cause cancer. Cigarette smoking

increases the risk of serious cardiovascular side effects from oral contraceptive use.

Please see Patient Package Insert for further information.

Therapeutic Target Organ(s) Reproductive System.

Listed by NTP and IARC. Not listed by OSHA.

Potential Environmental Effects See Section 12.

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Common Name | CAS-No | Composition |
|----------------------|----------------|---------------|
| Levonorgestrel | 797-63-7 | 36 mg/implant |
| Inactive Ingredients | Not applicable | Remainder |

4. FIRST AID MEASURES

Eye Contact In the case of contact with eyes, rinse immediately with plenty of water for 15 minutes and seek

medical advice.

Skin Contact Take off contaminated clothing and shoes immediately. Wash off immediately with soap and

plenty of water. If skin irritation persists, call a physician.

Inhalation Move to fresh air. Artificial respiration and/or oxygen may be necessary. If symptoms persist,

call a physician.

Ingestion If symptoms persist, call a physician. Do not induce vomiting without medical advice. Never

give anything by mouth to an unconscious person.

5. FIRE-FIGHTING MEASURES

Use water spray, foam, dry chemical or carbon dioxide.

Flammable Properties Presumed to be a combustible particulate solid.

Extinguishing Media

Suitable Extinguishing Media

Unsuitable Extinguishing Media

Do NOT use water jet.

Fire Fighting Evacuate area and fight fire from a safe distance. Cool closed containers exposed to fire with

water spray. In the event of fire and/or explosion do not breathe fumes.

Hazardous Combustion Products Carbon oxides, nitrogen oxides.

Protective Equipment and Precautions for Firefighters

In the event of fire, wear self-contained breathing apparatus and special protective equipment

for fire fighters.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Refer to protective measures listed in Sections 7 and 8.

Environmental Precautions Prevent product from entering drains. Local authorities should be advised if a significant spill

cannot be contained.

Methods for Containment Not available

Methods for Cleaning up Take up mechanically and collect in suitable container for disposal. Clean contaminated

surface thoroughly. Avoid formation of dust and aerosols.

7. HANDLING AND STORAGE

Handling For personal protection see Section 8. Handle in accordance with good industrial hygiene and

safety practice. Skin should be washed after contact. Avoid formation of dust and aerosols.

Storage No special safety precautions required. Keep container tightly closed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Common Name Exposure Guideline

Levonorgestrel 0.05 mcg/m³

Engineering Controls Apply technical measures to comply with the occupational exposure guideline. Local exhaust

ventilation is needed for limited open handling or where aerosols may be generated. General ventilation shall not be used as the primary control system. Isolators, fume hoods, or biological

safety cabinets may be used based on a risk assessment.

Personal Protective Equipment

Eye/face Protection Skin Protection Respiratory ProtectionProvide eye protection based on risk assessment.

Wear nitrile or latex gloves. Wear protective garment.

Base respirator selection on a risk assessment.

General Hygiene When using, do not eat, drink or smoke. General industrial hygiene practice. Wash hands

Considerations before breaks and at the end of workday.

Other Limit access to only personnel trained in the safe handling of this material. Consult a health

and safety professional for specific PPE, respirator, and risk assessment guidance.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Pharmaceutical implant Physical State Solid

ColorNot availableOdorNot available

Odor Threshold Not available

pH Not applicable

Specific GravityNot applicableWater SolubilityNot availableSolubilityNot applicableEvaporation RateNot applicable

Partition Coefficient Not available Vapor Pressure Not applicable (n-octanol/water)

Boiling PointNot applicableAutoignition TemperatureNot applicableFlash PointNot availableMethodNone

Melting Point Not available

Flammability Limits Upper Not applicable Lower Not applicable in Air

Explosion Limits Upper Not applicable **Lower** Not applicable

10. STABILITY AND REACTIVITY

Chemical Stability Stable at room temperature.

Conditions to Avoid No data available

Materials to Avoid No materials to be especially mentioned.

Hazardous Decomposition Products None under normal use.

Possibility of Hazardous Reactions None under normal use.

11. TOXICOLOGICAL INFORMATION

The following effects are based on the Active Pharmaceutical Ingredient.

Acute Toxicity

Levonorgestrel

LD50 Oral> 4000 mg/kg ratsAcute Dermal IrritationNot applicablePrimary Eye IrritationNot applicableSensitizationNot applicable

Multiple Dose Toxicity

Levonorgestrel

No Toxicologic Effect Not available Dose/Species/Study Length:

Maximum Tolerated Dose (MTD), Oral

Levonorgestrel

Carcinogenicity Carcinogenicity studies in mice, rats, dogs, or monkeys of racemate, norgestrel, levonorgestrel

or combinations of these, resulted in benign and malignant cancers in the breast, liver, and/or pituitary gland. Results of animal studies may not apply to humans because of the major

differences in which these species metabolize progestins.

Genetic Toxicity Negative in a battery of genotoxicity tests.

Reproductive Toxicity No data available

Developmental Toxicity In a series of reproductive and developmental studies, no embryotoxic or teratogenic effects

were noted.

Levonorgestrel

Target Organ(s) of Toxicity No data available

12. ECOLOGICAL INFORMATION

The following effects are based on the Active Pharmaceutical Ingredient.

Chemical Fate Information

Levonorgestrel

Mobility Not available

Biodegradability Not readily biodegradable.

Stability in Water Not available **Bioaccumulation** Not available

Ecotoxicity

Levonorgestrel

Microorganisms Minimum inhibitory concentration (MIC) > 1000 mg/l for 5 test species.

Not available Algae

Daphnia LC50/48h/daphnia > 0.94 mg/l, NOEC = 0.94 mg/l

Not available Fish

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method Dispose of in accordance with local and national regulations.

14. TRANSPORT INFORMATION

Transport Information This material is not classified as hazardous for transport.

Not regulated **U.S. Department of Transport (DOT) Canadian Transport of Dangerous Goods (TDG)** Not regulated International Civil Aviation Organization (ICAO) Not regulated International Air Transport Association (IATA) Not regulated International Maritime Dangerous Goods (IMDG)/International Not regulated Maritime Organization (IMO)

Transport of Dangerous Goods by Rail (RID) Not regulated Transport of Dangerous Goods by Road (ADR) Not regulated

Transportation of Dangerous Goods via Inland Waterways Not regulated

(ADN)

15. REGULATORY INFORMATION

USA

Federal Regulations

OSHA Regulatory Status

This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40n of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazardous Categorization

Acute Health Hazard No
Chronic Health Hazard Yes
Fire Hazard No
Sudden Release of Pressure Hazard No
Reactive Hazard No

This product does not contain any HAPs.

State Regulations

California Proposition 65

Listed on Proposition 65.

| Common Name | CAS-No | Type |
|----------------|----------|--------|
| Levonorgestrel | 797-63-7 | Female |

Canada

Not classified

WHMIS Hazard Class

Non-controlled

European Union

In accordance with EC directives or respective national laws, the product does not need to be classified nor labeled.

16. OTHER INFORMATION

Prepared By Wyeth Department of Environment, Health & Safety

Format This MSDS was prepared in accordance with ANSÍ Z400.1-2004.

List of References See Patient Package Insert for more information.

Revision Summary Not applicable

Disclaimer:

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End of MSDS