# MATERIAL SAFETY DATA SHEET

## 1. IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY

Material Drospirenone and Ethinyl Estradiol Tablets USP

3 mg/0.03 mg

Manufacturer Lupin Limited

Pithampur (M.P.) - 454 775

**INDIA** 

**Distributor** Lupin Pharmaceuticals, Inc.

Harborplace Tower, 21<sup>st</sup> Floor 111, South Calvert Street Baltimore, MD 21202

**United States** 

Tel. 001-410-576-2000 Fax. 001-410-576-2221

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients CAS

Drospirenone (DRSP) 67392-87-4

Ethinyl Estradiol (EE) 57-63-6

### 3. HAZARD IDENTIFICATION

#### Fire and Explosion

Expected to be non-combustible

Health

Do not prescribe drospirenone and ethinyl estradiol tablets to women who are known to have the following:

- Renal impairment
- Adrenal insufficiency
- A high risk of arterial or venous thrombotic diseases. Examples include women who are known to:
  - Smoke, if over age 35
  - Have deep vein thrombosis or pulmonary embolism, now or in the past
  - o Have cerebrovascular disease
  - o Have coronary artery disease
  - Have thrombogenic valvular or thrombogenic rhythm diseases of the heart (for example, subacute bacterial endocarditis with valvular disease, or atrial fibrillation)

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- Have inherited or acquired hypercoagulopathies
- Have uncontrolled hypertension
- Have diabetes mellitus with vascular disease
- Have headaches with focal neurological symptoms or have migraine headaches with or without aura if over age 35
- Undiagnosed abnormal uterine bleeding
- Breast cancer or other estrogen- or progestin-sensitive cancer, now or in the past
- Liver tumor (benign or malignant) or liver disease
- Pregnancy, because there is no reason to use COCs during pregnancy.

#### **Environment**

No information is available about the potential of this product to produce adverse environmental effects.

### 4. FIRST AID MEASURE

## **Ingestion** If conscious, give water to drink and induce vomiting. Do not attempt to

give any solid or liquid by mouth if the exposed subject is unconscious or semi-conscious. Wash out the mouth with water. Obtain medical

attention.

Inhalation Move individual to fresh air. Obtain medical attention if breathing

difficulty occurs. If not breathing, provide artificial respiration assistance.

Skin Contact Remove contaminated clothing and flush exposed area with large

amounts of water. Wash all exposed areas of skin with plenty of soap

and water. Obtain medical attention if skin reaction occurs.

**Eye Contact** Flush eyes with plenty of water. Get medical attention.

#### **NOTES TO HEALTH PROFESSIONALS**

### Medical Treatment Treat according to locally accepted protocols. For additional guidance,

refer to the current prescribing information or to the local poison control information center. Protect the patient's airway and support ventilation and perfusion. Meticulously monitor and maintain, within acceptable limits, the patient's vital signs, blood gases, serum electrolytes, etc.

#### Overdosage

There have been no reports of serious ill effects from overdose, including ingestion by children. Overdosage may cause withdrawal bleeding in females and nausea.

DRSP is a spironolactone analogue which has antimineralocorticoid properties. Serum concentration of potassium and sodium, and evidence of metabolic acidosis, should be monitored in cases of overdose.

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## 5. FIRE FIGHTING MEASURE

Fire and Explosion Hazards Assume that this product is capable of sustaining combustion.

**Extinguishing Media** Water spray, carbon dioxide, dry chemical powder or appropriate foam.

For single units (packages): No special requirements needed. **Special Firefighting Procedures** 

> For larger amounts (multiple packages/pallets) of product: Since toxic, corrosive or flammable vapors might be evolved from fires involving this product and associated packaging, self contained breathing apparatus and full protective equipment are recommended for firefighters.

**Hazardous Combustion Products** 

Hazardous combustion or decomposition products are expected when the product is exposed to fire.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions** Wear protective clothing and equipment consistent with the degree of

hazard.

**Environmental Precautions** For large spills, take precautions to prevent entry into waterways,

sewers, or surface drainage systems.

Collect and place it in a suitable, properly labeled container for recovery **Clean-up Methods** 

or disposal.

## 7. HANDLING AND STORAGE

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Handling No special control measures required for the normal handling of this

product.

**Storage** Store at 25°C (77°F); excursions permitted to 15 to 30°C (59 to 86°F)

[see USP Controlled Room Temperature].

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Wear appropriate clothing to avoid skin contact. Wash hands and arms thoroughly after handling.

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#### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### **Physical Form**

Drospirenone and ethinyl estradiol tablets USP, 3 mg and 0.03 mg are available in 28 tablets wallet (NDC 68180-902-11).

Three such wallets are packed in a carton (NDC 68180-902-13).

Each wallet contains 28 film-coated tablets in the following order:

- 21 active yellow colored, round, biconvex, film-coated tablets, debossed with 'LU' on one side and 'K32' on the other side each containing 3 mg drospirenone and 0.03 mg ethinyl estradiol
- 7 inert white to off-white round, biconvex film-coated tablets debossed with "K33" on one side and 'LU' on the other side

## 10. STABILITY AND REACTIVITY

Stable under recommended storage conditions.

## 11. TOXICOLOGICAL INFORMATION

## Carcinogenesis, Mutagenesis, Impairment of Fertility

In a 24 month oral carcinogenicity study in mice dosed with 10 mg/kg/day DRSP alone or 1 + 0.01, 3 + 0.03 and 10 + 0.1 mg/kg/day of DRSP and EE, 0.1 to 2 times the exposure (AUC of DRSP) of women taking a contraceptive dose, there was an increase in carcinomas of the harderian gland in the group that received the high dose of DRSP alone. In a similar study in rats given 10 mg/kg/day DRSP alone or 0.3 + 0.003, 3 + 0.03 and 10 + 0.1 mg/kg/day DRSP and EE, 0.8 to 10 times the exposure of women taking a contraceptive dose, there was an increased incidence of benign and total (benign and malignant) adrenal gland pheochromocytomas in the group receiving the high dose of DRSP. Mutagenesis studies for DRSP were conducted *in vivo* and *in vitro* and no evidence of mutagenic activity was observed.

## 12. ECOLOGICAL INFORMATION

No relevant studies identified.

#### 13. DISPOSAL CONSIDERATION

Incinerate in an approved facility. Follow all federal state and local environmental regulations.

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## 14. TRANSPORT INFORMATION

### IATA/ICAO - Not Regulated

IATA Proper shipping Name : N/A
IATA UN/ID No : N/A
IATA Hazard Class : N/A
IATA Packaging Group : N/A
IATA Label : N/A

## **IMDG** - Not Regulated

IMDG Proper shipping Name:N/AIMDG UN/ID No:N/AIMDG Hazard Class:N/AIMDG Flash Point:N/AIMDG Label:N/A

#### **DOT** - Not Regulated

DOT Proper shipping Name : N/A
DOT UN/ID No : N/A
DOT Hazard Class : N/A
DOT Flash Point : N/A
DOT Packing Group : N/A
DOT Label : N/A

#### 15. REGULATORY INFORMATION

This Section Contains Information relevant to compliance with other Federal and/or state laws.

### 16. OTHER INFORMATION

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. Nothing herein shall be deemed to create any warranty, express or implied. It is the responsibility of the user to determine the applicability of this information and the suitability of the material or product for any particular purpose.

**Lupin** shall not be held liable for any damage resulting from handling or from contact with the above product. Lupin reserves the right to revise this MSDS.

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