

### **Expert Synthesis Solutions**

700 Collip Circle London, ON N6G4X8

647-407-9078 | info@esschemco.com

www.esschemco.com

SAFETY DATA SHEET

Version: 2

Revision Date: 03/22/23

# SECTION 1: PRODUCT IDENTIFICATION

17-epi-Levonorgestrel **Product Name:** 

ESS0517 Catalog No.:

Product Use: For laboratory research purposes

#### **SECTION 2: HAZARDS IDENTIFICATION**

WHMIS Classification: CLASS D2A: Very toxic material causing other toxic effects. Reproductive Hazard.

GHS Classification: Carcinogenicity (Category 2)

**GHS Label elements:** 

Pictogram:

Danger Signal word:

H341: Suspected of causing genetic defects. Hazard statement:

H351: Suspected of causing cancer.

H360: May damage fertility or the unborn child. P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood. P280: Wear protective gloves/protective clothing/eye protection/ face protection.

P308+P313: IF exposed or concerned: Get medical advice/ attention. Response statements:

**HMIS Classification** 

**Health Hazard:** 

Precautionary statement:

Not available. **Chronic Health Hazard:** 

0 Flammability: 0 Physical Hazards: Potential Health Effects

May be harmful if inhaled. May cause respiratory tract irritation. Inhalation:

May cause skin irritation. Skin: May cause eye irritation. Eyes: May be harmful if swallowed. Ingestion:

No data available. Other hazards:

### **SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS**

Synonyms: Levonorgestrel Impurity 17

C<sub>21</sub>H<sub>28</sub>O<sub>2</sub> Formula: 312.45 Molecular Weight: 178737-52-5 CAS No.:

#### **SECTION 4: FIRST AID MEASURES**

Consult a physician. Show this SDS. Move out of dangerous area. General Advice:

Allow the victim to rest in a well-ventilated area. Seek immediate medical attention. If Inhaled:

After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and In case of skin contact:

non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cold water may be used. Cover the irritated skin

with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.

Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold In case of eye contact:

water may be used. Do not use an eve ointment. Seek medical attention.

Do not induce vomiting. Rinse mouth with water. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible If swallowed:

indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

# SECTION 5: FIRE FIGHTING MEASURES

Suitable extinguishing media: SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Special protective equipment for firefighters: Wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent) and full

protective gear. During a fire, toxic gases may be generated by thermal decomposition or combustion.

Hazardous decomposition products formed under fire conditions: carbon oxides (CO, CO<sub>2</sub>). Hazardous combustion products:

No data available. **Explosion data:** 

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

Use proper personal protective equipment as indicated in section 8. Personal precautions:

**Environmental precautions:** Clean up spills immediately, observing precautions in the Protective Equipment section. Do not let

product enter drains.

Methods and materials for containment and cleaning up: Sweep up, and then place into a suitable container for disposal. **Expert Synthesis Solutions** 

700 Collip Circle London, ON N6G4X8

647-407-9078 | info@esschemco.com

www.esschemco.com

SAFETY DATA SHEET Version: 2

Revision Date: 03/22/23

#### SECTION 7: HANDLING AND STORAGE

Keep away from heat. Keep away from sources of ignition. Avoid formation of dust and aerosols. Provide appropriate exhaust Precautions for safe handling:

ventilation where dust is formed. Ground all equipment containing material. Do not ingest. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice

immediately and show the container or the label. Avoid contact with skin and eyes.

Conditions for safe storage: Keep container tightly closed in a dry and well ventilated place. Ground all equipment containing material. Recommended long

term storage temperature -5°C

#### SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION

**Engineering Controls:** Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended

exposure limits.

Personal protective equipment

Respiratory protection: Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode

with emergency escape provisions.

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer

Hand protection: surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws

and good laboratory practices. Wash and dry hands.

Eye protection: Wear safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under

appropriate government standards such as NIOSH (US) or EN166 (EU).

Wear appropriate gloves and clothing to prevent skin exposure. Skin and body protection:

Handle in accordance with good industrial hygiene and safety practice. Wash hands before break and after the end of work day. Hygiene measures:

### **SECTION 9: PHYSICAL & CHEMICAL PROPERTIES**

White solid Appearance: No data available. Odour: No data available. Odour threshold: pH: No data available. Melting point/Freezing point: No data available. No data available. Initial boiling point/boiling range: Flash point: No data available. No data available. **Evaporation rate:** No data available. Flammability (solid; gas): No data available. Lower flammable/explosive limit: Upper flammable/explosive limit: No data available. No data available. Vapour pressure: No data available. Vapour density: EthOAc, DCM, THF Solubility: No data available. Partition coefficient - n-octanol/water: No data available. Autoignition temperature: **Decomposition temperature:** No data available. No data available. Viscosity:

## SECTION 10: STABILITY & REACTIVITY

Chemical stability: Stable under recommended storage conditions.

Not available. Conditions to avoid: Possibility of hazardous reactions: No data available. Incompatibilities: Strong oxidizing agents.

Hazardous decompositions products: Hazardous decomposition products formed under fire conditions: carbon oxides (CO, CO<sub>2</sub>).

### SECTION 11: TOXICOLOGICAL INFORMATION

No data available. **Acute Toxicity:** 

Potential health effects: This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP,

or EPA classification. May cause reproductive disorders.

May be harmful in case of inhalation. May cause respiratory tract irritation Inhalation: May be harmful if absorbed through skin. May cause skin irritation. Skin:

May cause eye irritation. Eyes: May be harmful if swallowed. Ingestion:

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Signs and symptoms of exposure:



# **Expert Synthesis Solutions**

700 Collip Circle London, ON N6G4X8

647-407-9078 | <u>info@esschemco.com</u>

www.esschemco.com

Revision Date: 03/22/23

SAFETY DATA SHEET

Version: 2

### **SECTION 12: ECOLOGICAL INFORMATION**

Ecotoxicity: No data available.
Persistence and degradability: No data available.
Bioaccumulative potential: No data available.
Mobility in soil: No data available.

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

## **SECTION 13: DISPOSAL CONSIDERATION**

**Product:** Dispose in a manner consistent with federal, state, and local regulations.

Contaminated packaging: Dispose of as unused product.

#### **SECTION 14: TRANSPORT INFORMATION**

TDG (Canada): Not dangerous goods.
DOT (US): Not dangerous goods.
IMDG: Not dangerous goods.
IATA: Not dangerous goods.
UN number: Not available.

**UN proper shipping name:** 17-epi-Levonorgestrel, solid, organic compound.

Transport hazard class: Not dangerous goods.

Packing Group: Not available, not dangerous goods.

**Special precautions:** Ship at room temperature.

### **SECTION 15: REGULATORY INFORMATION**

General: WHMIS CLASS D2A: Very toxic material causing other toxic effects. Reproductive hazard.

DSL/NDSL (Canada): This product is not listed on the Canadian DSL/NDSL.
TSCA (US): This product is not listed on the US EPA TSCA.

**ECHA (EU):** This product or a component of this product is listed on the EU ECHA.

## **SECTION 16: OTHER INFORMATION**

#### Further 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. The information in this document is based on the present state of our knowledge and is applicable to the product with regards to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Expert Synthesis Solutions shall not be held liable for any damage resulting from handling or from contact with the above product.