

SAFETY DATA SHEET

SECTION 1: PRODUCT IDENTIFICATION

Product Name: Estradiol-D4 Catalog No.: CG-ES-0328

Product Use: For laboratory research purposes

SECTION 2: HAZARDS IDENTIFICATION

WHMIS Classification: D2A Very toxic material causing other toxic effects. Teratogen. Carcinogen.

GHS Classification: Reproductive hazard.

> Carcinogenicity (Category 2) Reproductive toxicity

(Category 1A) Effects on or **GHS Label elements:**

via lactation.

Pictogram:

Signal word: Danger

Hazard statement: H351: Suspected of causing cancer.

> H360: May damage fertility or the unborn child. H362: May cause harm to breast-fed children. P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood.

P260: Do not breath dust/ fume/ gas/ mist/ vapours/ spray. P263: Avoid contact during pregnancy/ while nursing. P264: Wash (hands) thoroughly after handling.

P280: Wear protective gloves/protective clothing/eye protection/ face protection. P308+P313: IF exposed

or concerned: Get medical advice/ attention. Response statements:

HMIS Classification

Precautionary statement:

Health Hazard: 2

Not data available **Chronic Health Hazard:**

Flammability: **Physical Hazards:**

<u>Potential</u> **Health**

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

through skin. May cause skin irritation.

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

Other hazards: No data available.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Not available Synonyms: $C_{18}H_{20}D_4O_2$ Formula: Molecular Weight: 276.41 66789-03-5 CAS No.:

SECTION 4: FIRST AID MEASURES

contact:

If swallowed:

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

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

In case of skin After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and contact:

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, In case of eye

keeping eyelids open. Cold water may be used. Do not use an eye 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 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.



SAFETY DATA SHEET

SECTION 5: FIRE FIGHTING MEASURES

Conditions of flammability: Not flammable or combustible.

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 combustion products: Hazardous decomposition products formed under fire conditions: carbon oxides (CO, CO₂).

Explosion data: No data available.

SECTION 6: ACCIDENTAL RELEASE MEASURES

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

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.

SECTION 7: HANDLING AND STORAGE

Precautions for safehandling:
Keep away from heat. Keep away from sources of ignition. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation where dust is formed. Ground all equipment containing material. Do not

appropriate exhaust 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 eves.

Conditions for safe

Keep container tightly closed in a dry and well ventilated place. Ground all equipment containing material.

storage: Recommended long term storage temperature -20°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

Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the

protection: positive pressure mode with emergency escape provisions.

No data available.

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

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).

Eye protection: Approved under appropriate government standards such as NIOSH (US) or EN166

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

Hygiene measures: the end of work day.

SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

Appearance: Beige solid. Odour: No data available. Odour threshold: No data available. No data available. Melting point/Freezing point: No data available. Initial boiling point/boiling range: No data available. Flash point: No data available. **Evaporation rate:** No data available. Flammability (solid; gas): No data available. Lower flammable/explosive limit: No data available. Upper flammable/explosive limit: No data available. Vapour pressure: No data available.

Solubility: DMSO, Methanol, Partition coefficient – n- THF No data

Vapour density:

octanol/water: available.

Autoignition temporature: No data available.

Autoignition temperature:

Decomposition temperature:

Viscosity:

No data available.

No data available.

No data available.



SAFETY DATA SHEET

SECTION 10: STABILITY &

REACTIVITY

Chemical stability: Stable under recommended storage conditions.

Conditions to avoid: Not available.

Possibility of hazardous No data available.

reactions: Strong oxidizing agents.

Incompatibilities: Hazardous decomposition products formed under fire conditions: carbon oxides (CO, CO₂).

Hazardous decompositions

products:

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity: No data available.

Potential health effects:

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

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

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

investigated.

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 Estradiol-D4, organic compound, solid.

name: Not dangerous goods.

Transport hazard class: Not available.

Packing group: Ship at room temperature.

Special precautions:

SECTION 15: REGULATORY INFORMATION

General: D2A Very toxic material causing other toxic effects. Teratogen. Carcinogen. 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): 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. CHEM-GOLD shall not be held liable for any damage resulting from handling or from contact with the above product.