

# Safety Data Sheet

In case of emergency:

**TOXYSCAN HOTLINE: 1-855-780-0599** 

## Fludrocortisone-21,21-d<sub>2</sub>

## Section 1. Chemical product and company identifications

Product code: D-6008

 $\textbf{Chemical formula:} \ C_{21}H_{27}D_2FO_5$ 

CAS: N/A

**CAS (unlabelled):** 127-31-1

**Synonyms:** 4-Pregnen- $9\alpha$ -fluoro- $11\beta$ ,17,21-triol-3,20-dione, 9-Fluorocortisol

**Supplier / Manufacturer:** 

C/D/N Isotopes Inc.

88 Leacock Street Pointe-Claire (Québec) H9R 1H1

Phone: 514-697-6254

Toll-Free (Canada & USA): 1-800-565-4696

Fax: 514-697-6148

Website: www.cdnisotopes.com

Section 2. Hazards identifications

Physical state: Solid

Warning: Harmful if swallowed.

Routes of entry: Inhalation, ingestion, skin and eyes

GHS (Globally Harmonized System of Classification and Labelling of Chemicals):

GHS Classification: - Acute Toxicity - Oral (Category 4)

- Reproductive toxicity (Category 2)

**GHS Label elements:** - Pictograms:

**♦** <!

- Signal word: Warning

**Hazards statement:** - H302 Harmful if swallowed.

- H361 Suspected of damaging fertility or the unborn child.

**Precautionary statement:** - P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

- P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

- P317 Get medical help.

Section 3. Composition and information on ingredients

Name CAS Concentration %

 $Fludrocortisone-21,21-d_2 \hspace{1.5cm} N/A \hspace{1.5cm} > 95$ 

**Section 4. First aid measures** 

**Eye contact:** Flush eyes with water as a precaution.

**Skin contact:** Wash off with soap and plenty of water. Consult a physician.

**Inhalation:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**General advice:** Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

### Section 5. Firefighting measures

Flammability of the product: Not flammable or combustible.

Lower explosion limit: No data available.
Upper explosion limit: No data available.
Auto-ignition temperature: No data available.

Flash point: No data available.

Products of combustion: Hazardous decomposition products formed under fire conditions: Carbon oxides, hydrogen fluoride.

**Firefighting media and instructions:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for firefighters: Wear self-contained breathing apparatus for firefighting if necessary.

#### **Section 6. Accidental release measures**

**Personal precautions:** Use personal protective equipment. Avoid dust formation. Ensure adequate ventilation. Avoid breathing dust. **Environmental precautions:** Do not let product enter drains.

Methods for cleaning up: Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

## Section 7. Handling and storage

**Handling:** Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation. **Storage:** Store at room temperature. Adequate ventilation.

#### **Section 8. Exposure Controls, Personal Protections**

Engineering controls: Use mechanical exhaust or laboratory fumehood to avoid exposure.

Eyes: Safety glasses with side-shields conforming to NIOSH (US) or EN 166 (EU).

**Respiratory:** Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US).

**Hands:** Handle with gloves. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Skin/body:** Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

## Section 9. Physical and chemical properties (unlabelled)

Molecular weight: 380.45 g/mol

Physical status: Solid Color: White to off-white Odour: No data available Density: No data available

**Melting point:** 246 - 248 °C (475 - 478 °F)

Boiling point: No data available Vapour pressure: No data available Vapour density: No data available

Partition coefficient (octanol/water): log Pow: 1.67

Water solubility: 0.14 g/L

## Section 10. Stability and reactivity

Stability and reactivity: Stable under recommended storage conditions.

Incompatibility: Strong oxidizing agents.

Products of combustion: Hazardous decomposition products formed under fire conditions: Carbon oxides, hydrogen fluoride.

**Reactivity conditions:** No data available.

## Section 11. Toxicological information (unlabelled)

Toxicological data: Fludrocortisone

**Information on ingredients:** 

Name CAS LD<sub>50</sub> LC<sub>50</sub>

Fludrocortisone 127-31-1 Intraperitoneal - Mouse - 170 mg/kg No data available

#### **Potential acute effects**

- Eyes: May cause eye irritation.
- Skin: May be harmful if absorbed through skin. May cause skin irritation.
- Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.
- Ingestion: Harmful if swallowed.

#### **Potential chronic effects**

- Carcinogenic effects: IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
- Mutagenic effects: No data available.
- Teratogenic effects: Suspected of damaging the unborn child. Suspected human reproductive toxicant.
- Medical conditions aggravated by overexposure No data available.

## Section 12. Ecological information

#### **Ecological data:**

Name Results Species Period

Fludrocortisone No data available

Effects on environment: No data available.

**Mobility:** No data available.

Environmental precautions: No data available.

Persistence and degradability: No data available.

Bioaccumulative potential: No data available.

## Section 13. Disposal considerations

Waste disposal: Contact a licensed professional waste disposal service to dispose of this material.

## **Section 14. Transportation information**

Classification DOT/IMDG/IATA label:

Shipping name: Not dangerous goods

**UN number:** None **Class:** None

Packaging group: None

**Additional information: None** 

### Section 15. Regulatory information

**UNITED STATES: NFPA classification** 



Health: 2 Flammable: 0 Reactivity: 0 Special conditions: None

Legend: 4: Severe, 3: High, 2: Moderate, 1: Slightly, 0: Not hazardous

#### **U.S. Federal regulations:**

TSCA 8(b) inventory: Fludrocortisone

SARA 302/304/311/312 extremely hazardous substances: Not Listed SARA 302/304 emergency planning and notification: Not Listed SARA 302/304/311/312 hazardous chemicals: Not Listed

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Fire hazard, Immediate (acute)

health hazard, Delayed (chronic) health hazard: Not Listed

CWA (Clean Water Act) 307: Not Listed CWA (Clean Water Act) 311: Not Listed

CAA (Clean Air Act) 112 accidental release prevention: Not Listed CAA (Clean Air Act) 112 regulated flammable substances: Not Listed CAA (Clean Air Act) 112 regulated toxic substances: Not Listed

#### State regulations:

**DEA List I Chemicals (Precursor Chemicals):** Not Listed **DEA List II Chemicals (Essential Chemicals):** Not Listed

**Substances in Massachusetts:** Not Listed **Dangerous substances in New Jersey:** Not Listed

New York – Dangerous substances with acute effects: Not Listed Dangerous substances in Pennsylvania – right to know: Not Listed

#### WHMIS (Canada):



D2A - Very toxic material causing other toxic effects

## **Section 16. Additional information**

#### **References:**

- ANSI Z400.1, MSDS Standard, 2001.
- Manufacturer's Material Safety Data Sheet.
- 29CFR Part1910.1200 OSHA MSDS Requirements.
- 49CFR Table List of Hazardous Materials, UN#, Proper Shipping Names, PG. -Canada
- Gazette Part II, Vol. 122, No. 2 Registration SOR/88-64 31 December, 1987 Hazardous Products Act "Ingredient Disclosure List".
- Federal act on the controlled products
- Canadian Transport of Dangerous Goods, Regulations and Schedules, Clear Language version 2002.
- Toxicological repertory, HSC.
- Material safety data sheet from the components.

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Elaborated by: Toxyscan Inc., 1-866-780-0599

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