

SECTION 1: PRODUCT IDENTIFICATION

PRODUCT NAME FLUDROCORTISONE ACETATE, USP (Micronized)

PRODUCT CODE 0129

SUPPLIER MEDISCA Inc.

Tel.: 1.800.932.1039 | Fax.: 1.855.850.5855 661 Route 3, Unit C, Plattsburgh, NY, 12901 6641 N. Belt Line Road, Suite 130, Irving, TX, 75063

MEDISCA Pharmaceutique Inc.

Tel.: 1.800.665.6334 | Fax.: 514.338.1693 4509 Rue Dobrin, St. Laurent, QC, H4R 2L8

21300 Gordon Way, Unit 153/158, Richmond, BC V6W 1M2

MEDISCA Australia PTY LTD

Tel.: 1.300.786.392 | Fax.: 61.2.9700.9047

Unit 7, Heritage Business Park

5-9 Ricketty Street, Mascot, NSW 2020

EMERGENCY PHONE CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300

NSW Poisons Information Centre: 131 126

National Chemical Emergency Centre 44(0)1235239670

RECOMMENDED USES Manufacturing and Compounding

RESTRICTIONS ON USE Not applicable

SECTION 2: HAZARDS IDENTIFICATION

GHS CLASSIFICATION Acute Toxicity - Oral (Category 4)

Toxic to Reproduction (Category 2);

Specific Target Organ Toxicity - Repeated Exposure (Category 1)

PICTOGRAM

Danger



SIGNAL WORD

HAZARD STATEMENT(S) Harmful if swallowed.

Suspected of damaging fertility or the unborn child.

Causes damage to organs through prolonged or repeated exposure (endocrine system).

ADVERSE PHYSIOCHEMICAL, HUMAN HEALTH AND ENVIRONMENTAL

EFFECTS

PRECAUTIONARY STATEMENT(S)

Not Applicable.

Prevention Wash hands thoroughly after handling.

Do not eat, drink or smoke when using this product. Obtain, read and follow all special instructions before use.

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

Wear protective gloves, protective clothing, eye and face protection and hearing protection.

Do not breathe dust/fume/gas/mist/ vapors/spray.



Response IF SWALLOWED: Immediately call a poison center. Get medical help. Rinse mouth.

IF EXPOSED OR CONCERNED: Get medical advice.

Get medica help if you feel unwell.

Storage Store locked up.

Disposal Dispose of contents and/or container in accordance with local regulations.

HMIS CLASSIFICATION **Health Hazard** Flammability

> Reactivity Personal Protection 0 G

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME Pregn-4-ene-3,20-dione, 21-(acetyloxy)-9-fluoro-11,17-dihydroxy-, (11β) -.

BOTANICAL NAME Not applicable

SYNONYM 9-alpha-Fluorohydrocortisone acetate; Fludrocortisone 21-acetate

Not applicable

CHEMICAL FORMULA C23H31FO6 **CHEMICAL FAMILY** Not available **CAS NUMBER** 514-36-3

MOLECULAR WEIGHT 422.49

ALTERNATE CAS NUMBER

COMPOSITION

CHEMICAL NAME	CAS NUMBER	EC NUMBER	% BY WEIGHT
FLUDROCORTISONE ACETATE	514-36-3	208-180-4	100

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as health hazards and hence require reporting in this section.

SECTION 4: FIRST-AID MEASURES

IN CASE OF EYE CONTACT Flush with copious amounts of water for 15 minutes, separating eyelids with fingers. If irritation persists seek

medical aid.

IN CASE OF SKIN CONTACT Wash with soap & water for 15 minutes. If irritation persists seek medical aid.

IF SWALLOWED Call a physician. Wash out mouth with water. Do not induce vomiting without medical advice.

IF INHALED Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a

physician

MEDICAL ATTENTION AND SPECIAL

TREATMENT

Get emergency medical help.

SYMPTOMS CAUSED BY EXPOSURE Not expected to present a significant hazard under anticipated conditions of normal use.

SECTION 5: FIREFIGHTING MEASURES

SPECIFIC HAZARDS ARISING FROM

THE CHEMICAL

Not applicable

FLAMMABLE PROPERTIES

Last Revision: 03/2023

May be combustible at high temperature

HAZARDOUS COMBUSTION PRODUCTS

Under fire conditions, hazardous fumes will be present.



SUITABLE & UNSUITABLE EXTINGUISHING MEDIA

PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS

Small fire: dry chemical, CO₂ or water spray. **Large fire:** dry chemical, CO₂, alcohol resistant foam or water spray. Do not get water inside containers.

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate

ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

METHODS & MATERIAL FOR

CONTAINMENT

CLEANUP PROCEDURE

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Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves. Stop leak if you can do it without

risk. Prevent entry into waterways, sewers, basements or confined areas. Shut off all sources of ignition.

Evacuate the area. If necessary, employ water fog to disperse the vapors. Absorb the matter with compatible vermiculite or other absorbing material. Place in a suitable container and retain for disposal. Ventilate and clean

the affected area. Do not flush into sewerage system or to drains.

On land, sweep or shovel into suitable containers. Minimize generation of dust.

REFERENCE TO OTHER SECTIONSSee Section 7 for information on safe handling. See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING Do not inhale. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Wash

thoroughly after handling. Store away from incompatible materials, in a well-ventilated area. Eliminate all sources of ignition. Store in accordance with local regulations. Do not store in unlabeled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Use

appropriate containment to avoid environmental contamination.

CONDITIONS FOR SAFE STORAGE

Store away from incompatible materials, in a well-ventilated area. Eliminate all sources of ignition. Store in accordance with local regulations. Do not store in unlabeled containers. Containers that have been opened

accordance with local regulations. Do not store in unlabeled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Use appropriate containment to avoid

environmental contamination.

STORAGE CONDITIONS Store in original container, tightly sealed, protected from direct sunlight and moisture.

Short term excursions, temperature excursions as experienced during shipping and warehousing, up to 40°C

are acceptable.

SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

Chemical Name: FLUDROCORTISONE ACETATE CAS #: 514-36-3

	Country Limit value-8 hours		Limit value-	Limit value-Short Term		REL	Advisory	Notes	
		ppm	mg/m³	ppm	mg/m³				
OSHA	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
ACGIH	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
NIOSH	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
WEEL	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
HSIS	Australia	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
HSE	UK	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A



GESTIS Add Country N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
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N/L = Not listed; N/A = Not Available

PHYSICAL STATE

DESCRIPTION

AUTO-IGNITION

PARTICLE

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SOLUBILITY

PELs are 8-hour TWAs = Limit value - Eight hours

Ceiling or Short-Term TWA = STEL = Limit value - Short term

EXPOSURE GUIDELINES Consult local authorities for provincial or state exposure limits. Particulates not otherwise regulated, respirable

fraction: 5 mg/m³.

PERSONAL PROTECTIVE EQUIPMENT

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by WHMIS or OSHA's

eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. **Skin:** Wear appropriate gloves to prevent skin exposure. **Clothing:** Wear appropriate protective clothing to minimize contact with skin. **Respirators:** Follow WHMIS or OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. **Thermal Hazards:** For products representing a

thermal hazard, appropriate Personal Protective Equipment should be used.

SPECIFIC ENGINEERING CONTROLS Adequate mechanical ventilation. Furnehood, eye wash station, and safety shower.

BIOLOGICAL MONITORING

Not available

CONTROL BANDING

Not available

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

White to pale yellow crystals or crystalline powder. Is odorless or practically odorless. Is hygroscopic.

Insoluble in water; slightly soluble in ether; sparingly soluble in alcohol and in chloroform.

OXIDIZING PROPERTY

BOILING POINT

ODOR Odorless or Practically odorless

Solid

FLAMMABILITY May be combustible at high temperature

Not available

Not available

TEMPERATURE	7.07 0.70.100.10		. Tot divalled	TEMPERATURE	(451.4-453.2)°F
EVAPORATION RATE	Not available	EXPLOSIVE LIMIT	Not available	FLASH POINT	Not available

Not available

Not available

DECOMPOSITION

Нα

log P1.67 (20°C)LOWER FLAMMABLE/
(OCTANOL-WATER)Not availableMELTING/FREEZING
POINT(233 - 234)°C,
(451.4-453.2)°F
(decomposes)

CHARACTERISTICS

RELATIVE DENSITY
Not available
SPECIFIC GRAVITY
Not available
UPPER FLAMMABLE/
Not available
EXPLOSIVE LIMIT(S)

VAPOR DENSITY Not available VAPOR PRESSURE < 0.0000001 kPa VISCOSITY Not available (25 °C)

The physical data presented above are typical values and should not be construed as a specification.

SECTION 10: STABILITY AND REACTIVITY

(233 - 234)°C.

Not available



REACTIVITY Not established

CHEMICAL STABILITY Stable under recommended storage conditions

INCOMPATIBLE MATERIALS Strong oxidants

HAZARDOUS DECOMPOSITION

PRODUCTS

Toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides and other gases may occur

HAZARDOUS POLYMERIZATION Will not occur POSSIBLITY OF HAZARDOUS Not established

REACTION

CONDITIONS TO AVOID Moisture, sunlight and extreme temperatures

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY Oral: Rat: LD50: (mg/kg): > 1000

> Dermal: Rabbit: LD50: (mg/kg): Not available Inhalation: Rat: LC50: (mg/L/4hr): Not available

SKIN CORROSION/IRRITATION Due to lack of data the classification is not possible. SERIOUS EYE DAMAGE/EYE Due to lack of data the classification is not possible.

IRRITATION

RESPIRATORY SENSITIZATION Due to lack of data the classification is not possible.

SKIN SENSITIZATION Due to lack of data the classification is not possible. **GERM CELL MUTAGENICITY**

CARCINOGENICITY **OSHA** FLUDROCORTISONE ACETATE is not listed.

> NTP FLUDROCORTISONE ACETATE is not listed. **IARC** FLUDROCORTISONE ACETATE is not evaluated.

California This product does not contain any chemicals known to the State of California to cause

Proposition 65 cancer, birth defects, or any other reproductive harm.

ADDITIONAL CARCINOGENICITY

INFORMATION

Due to lack of data the classification is not possible.

Due to lack of data the classification is not possible.

REPRODUCTIVE TOXICITY Suspected of damaging fertility or the unborn child.

Most studies have concluded that therapeutic use of corticosteroids by pregnant women does not cause adverse effects on the fetus. A small increase in the incidence of cleft palate was seen in some human studies. Infants born to mothers who received substantial doses of corticosteroids during pregnancy should be observed

for signs of hypoadrenalism.

SPECIFIC TARGET ORGAN TOXICITY -

SINGLE EXPOSURE

Based on available data, the classification criteria are not met.

SPECIFIC TARGET ORGAN TOXICITY -

REPEATED EXPOSURE

Causes damage to organs (endocrine system) through prolonged or repeated exposure.

ASPIRATION HAZARDS

Based on available data, the classification criteria are not met.



SIGNS AND SYMPTOMS OF **EXPOSURE**

ROUTES OF EXPOSURE:

Oral, Dermal, Inhalation, Eve contact

EARLY ONSET SYMPTOMS RELATED TO EXPOSURE:

Not available

DELAYED HEALTH EFFECT FROM EXPOSURE:

Increase in blood pressure. Heart failure. Corticosteroids: Fluid and electrolyte imbalance. Cushing's syndrome.

Adrenal suppression. Immune system depression. Withdrawal.

Symptoms related to the physical, chemical, and toxicological characteristics:

Mineralocorticoid effects: Swelling. Confusion. Lightheadedness. Nausea. Vomiting. Numbness. Tremors.

Irritability. Fatigue. Lethargy. Constipation.

Glucocorticoid effects: Bone fractures. Back pain. Joint pain or stiffness. Weakness. Increased appetite. Infection. Delayed wound healing. Thinning skin. Bruising. Purple lines on skin. Increased hair growth. Acne.

Redistribution of body fat. Menstrual irregularities. Impotence. Headache. Increased sweating. Eye pain.

Change in vision. Mental or behavioral changes.

Withdrawal effects: Fever. Muscle pain. Joint pain. Malaise

Cross sensitivity:

Persons sensitive to other corticosteroids may be sensitive to this material also.

Medical conditions aggravated by exposure:

Corticosteroids: Heart disease. High blood pressure. Diabetes. Epilepsy. Glaucoma. Hypothyroidism. Osteoporosis. Peptic ulcer. Systemic fungal infection. Mental disorders. Impaired liver or kidney function.

POTENTIAL HEALTH EFFECTS Inhalation May be harmful if inhaled. May cause respiratory tract irritation.

> Ingestion Harmful if swallowed.

Skin May be harmful if absorbed through skin. May cause skin irritation.

Eyes May cause eye irritation.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY EC50: 48 Hr: Crustacea: (mg/L): Not available

LC50: 96 Hr: Fish: (mg/L): Not available

EC50: 72 or 96 Hr: Algae (or other agua plants): (mg/L): Not available

PERSISTENCE AND DEGRADABILITY

Not available

Log Pow: 1.67 (20°C) (fludrocortisone) **BIOACCUMULATIVE POTENTIAL**

MOBILITY IN SOIL

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Not available

Insoluble in water.

OTHER ADVERSE EFFECTS

This product is not intended to be released into the environment

SECTION 13: DISPOSAL CONSIDERATIONS

DISPOSAL METHODS Dispose of in accordance with federal / local laws and regulations. Avoid release into the environment.

SECTION 14: TRANSPORT INFORMATION

UN PROPER SHIPPING NAME Not dangerous good

UN NUMBER Not applicable

CLASS Not applicable



PACKING GROUP Not applicable

AUSTRALIA

HAZCHEM Not applicable

<u>EU</u>

TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE

Not Listed

IBC CODE

ENVIRONMENTAL HAZARDS Not available SPECIAL SHIPPING INFORMATION Not applicable

SECTION 15: REGULATORY INFORMATION

UNITED STATES REGULATIONS

Chemical Name & CAS	CERCLA 40 CFR Part 302.4	SARA (Title III) 40 CFR Part 372.65	EPA 40 CF Appendix A	R Part 355 Appendix B	Pennsylvania	Right-to-know New Jersey	Massachusetts	California Prop 65
FLUDROCORTISONE ACETATE 514-36-3	N/L	N/L	N/L	N/L	N/L	N/L	N/L	N/L

N/L = Not Listed; X = Listed

AUSTRALIAN REGULATIONS

Chemical Name & CAS	Poisons and Therapeutic Goods	Therapeutic Goods Act	Code of Practices - Illicit Drug Precursors	Poisons Standard	Work Health and Safety Regulations	Inventory of Industrial Chemcials
FLUDROCORTISONE ACETATE 514-36-3	N/L	Listed as Schedule	N/L	Listed	N/L	N/L

N/L = Not Listed

EU REGULATIONS

Chemical Name & CAS	REACH ANNEX XVII	REACH ANNEX XIV	EC 1005/2009	EC 850/2004	EC 1107/2009	PIC - Prior Informed Consent Regulation	EC 2012/18
FLUDROCORTISONE ACETATE 514-36-3	N/L	N/L	N/L	N/L	N/L	N/L	N/L

N/L = Not Listed; X = Listed

Any EU regulation not listed above is not applicable to this product. SUBJECT TO INTERNATIONAL Not applicable

AGREEMENT

Last Revision: 03/2023

SECTION 16: OTHER INFORMATION

REFERENCES Available upon request



ABBREVIATIONS AND ACRONYMS

ACGIH - American Conference of Governmental Industrial Hygienists; AIHA WEEL – American Industrial Hygiene Association Workplace Environment Exposure Levels; CAESAR – Computer Assisted Evaluation of industrial chemical Substances According to Regulations; CAS – Chemical Abstract Service; CERCLA – Comprehensive Environmental Response, Compensation, and Liability Act; EC50 – Effective Concentration, 50%; EPA – Environmental Protection Agency; GHS – Global Harmonized System; HMIS – Hazardous Materials Information System; HSE – Health and Safety Executive; HSIS – Hazardous Substances Information System; IARC – International Agency for Research on Cancer; IDLH - Immediately Dangerous to Life or Health; IRFMN – Ready Biodegradability Model; ISS – Instituto Superiore Sanità; LC50 – Lethal Concentration, 50%; LD50 – Lethal Dose, 50%; MSHA - Mine Safety and Health Administration; NIOSH – National Institute for Occupational Safety and Health; NTP – National Toxicology Program; OSHA PEL – Occupational Safety & Health Administration Permissible Exposure Limits; QSAR – Quantitative Structure-activity relationship; REL - Recommended Exposure Limit; SARA – Superfund Amendments and Reauthorization Act; STEL – Short Term Exposure Limit; TLV – Threshold Limit Value; TWA – Time Weighted Average; WHMIS – Workplace Hazardous Materials Information System

LAST REVISION SUPERSEDES 03/2023

05/2021

For a list of changes to the SDS since the last version, please communicate with MEDISCA at www.medisca.com

DISCLAIMER

This document was created in accordance with OSHA, Safe Work Australia and WHMIS regulations. 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 regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. MEDISCA® shall not be held liable for any damage resulting from handling or from contact with the above product. Recipients of the product must take responsibility for observing existing laws and regulations.

SUPPLEMENTARY INFORMATION

For all country specific requirements not outlined on this Safety Data Sheet, please request Supplementary Page to this Safety Data Sheet.