

SAFETY DATA SHEET

1. Identification

Product identifier Alclometasone Dipropionate

Other means of identification

Catalog number 1012757

Chemical name Pregna-1,4-diene-3,20-dione, 7-chloro-11-hydroxy-16-methyl-17,21-bis(1-oxopropoxy)-, (7 alpha,

11 beta, 16 alpha)-

Synonym(s) Alclometasone 17,21-dipropionate

Specified quality tests and assay use only. Recommended use

Recommended restrictions Not for use as a drug. Not for administration to humans or animals.

Manufacturer/Importer/Supplier/Distributor information

U. S. Pharmacopeia Company name 12601 Twinbrook Parkway **Address**

> Rockville MD 20852-1790

US

Telephone RS Technical Services 301-816-8129

Website www.usp.org E-mail RSTECH@usp.org

Emergency phone number CHEMTREC within US &

Canada

CHEMTREC outside US &

1-800-424-9300 +1 703-527-3887

Canada

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 2B Reproductive toxicity Category 2

Specific target organ toxicity, repeated

exposure

OSHA hazard(s) Not classified.

Label elements



Signal word

Hazard statement Causes skin irritation. Causes eye irritation. Suspected of damaging fertility or the unborn child.

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

Precautionary statement

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye

Category 1 (endocrine system)

protection/face protection.

If on skin: Wash with plenty of water/. If skin irritation occurs: Get medical advice/attention. Take Response

off contaminated clothing and wash before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If exposed or concerned: Get medical

advice/attention.

Storage Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations. **Disposal**

Hazard(s) not otherwise

classified (HNOC)

Not classified.

Material name: Alclometasone Dipropionate

USP SDS US

3. Composition/information on ingredients

Substance

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Chemical name	Common name and synonyms	CAS number	%
Alclometasone Dipropionate	Alclometasone 17,21-dipropionate	66734-13-2	100

4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Remove contaminated clothing. Wash off with soap and plenty of water. If skin irritation occurs:

Get medical advice/attention.

Eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

Most important

symptoms/effects, acute and

delayed

Irritation of eyes and mucous membranes. Fluid and electrolyte disturbances. Hypertension. Mood

or mental changes.

Indication of immediate medical attention and special treatment needed

Acute toxicity following overdose is uncommon. Gastrointestinal decontamination is generally not necessary. Treatment should be symptomatic and supportive. [Poisindex 2010]

General information

Remove from exposure. Remove contaminated clothing. For treatment advice, seek guidance from an occupational health physician or other licensed health-care provider familiar with workplace chemical exposures. In the United States, the national poison control center phone number is 1-800-222-1222. If person is not breathing, give artificial respiration. If breathing is difficult, give oxygen if available. Persons developing serious hypersensitivity (anaphylactic) reactions must receive immediate medical attention.

5. Fire-fighting measures

CO2.

Unsuitable extinguishing

media

None known.

Specific hazards arising from

the chemical

No unusual fire or explosion hazards noted.

Special protective equipment and precautions for firefighters

t Wear suitable protective equipment.

Fire-fighting

equipment/instructions

Use water spray to cool unopened containers. As with all fires, evacuate personnel to a safe area. Firefighters should use self-contained breathing equipment and protective clothing.

Specific methodsUse standard firefighting procedures and consider the hazards of other involved materials.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Avoid inhalation of dust from the spilled material. Wear appropriate personal protective equipment.

Methods and materials for containment and cleaning up

Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid the generation of dusts during clean-up. For waste disposal, see section 13 of the SDS. Clean surface thoroughly to remove residual contamination.

7. Handling and storage

Precautions for safe handling As a ger

As a general rule, when handling USP Reference Standards, avoid all contact and inhalation of dust, mists, and/or vapors associated with the material. Clean equipment and work surfaces with suitable detergent or solvent after use. After removing gloves, wash hands and other exposed skin thoroughly. Use of a designated area is recommended for handling of potent materials.

Conditions for safe storage, including any incompatibilities

Store in tight container as defined in the USP-NF. This material should be handled and stored per label instructions to ensure product integrity.

8. Exposure controls/personal protection

Exposure limit values

Industrial Use

Material	Туре	Value
Alclometasone Dipropiona	TWA	35 micrograms/m3
te (CAS 66734-13-2)		

Biological limit valuesNo biological exposure limits noted for the ingredient(s).

Appropriate engineering

controls

Airborne exposure should be controlled primarily by engineering controls such as general dilution ventilation, local exhaust ventilation, or process enclosure. Local exhaust ventilation is generally preferred to general exhaust because it can control the contaminant at its source, preventing dispersion into the work area. An industrial hygiene survey involving air monitoring may be used to determine the effectiveness of engineering controls. Effectiveness of engineering controls intended for use with highly potent materials should be assessed by use of nontoxic surrogate materials. Local exhaust ventilation such as a laboratory fume hood or other vented enclosure is recommended, particularly for grinding, crushing, weighing, or other dust-generating procedures.

Individual protection measures, such as personal protective equipment

Eye/face protection

Safety glasses with sideshields are recommended. Face shields or goggles may be required if splash potential exists or if corrosive materials are present. Approved eye protection (e.g., bearing the ANSI Z87 or CSA stamp) is preferred. Maintain eyewash facilities in the work area.

Skin protection

Hand protection Chemically compatible gloves. For handling solutions, ensure that the glove material is protective

> against the solvent being used. Use handling practices that minimize direct hand contact. Employees who are sensitive to natural rubber (latex) should use nitrile or other synthetic nonlatex gloves. Use of powdered latex gloves should be avoided due to the risk of latex allergy. To reduce the risk of contamination of skin and surfaces, wear two pairs of gloves. Remove the outer gloves after handling and cleanup of the material, and remove the inner gloves only after removing other

personal protective equipment.

Other For handling of laboratory scale quantities, a disposable lab coat or isolation gown over street

clothes is recommended. Where significant quantities are handled, work clothing and booties may

be necessary to prevent take-home contamination.

Respiratory protection Where respirators are deemed necessary to reduce or control occupational exposures, use

NIOSH-approved respiratory protection and have an effective respirator program in place

(applicable U.S. regulation OSHA 29 CFR 1910.134).

Thermal hazards Not available.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Appearance White to off-white crystalline powder.

Physical state Solid. Form Powder Odor Not available. **Odor threshold** Not available. pН Not available.

413.6 - 420.8 °F (212 - 216 °C); also reported as 191 ° C Melting point/freezing point

Initial boiling point and boiling

range

Not available.

Not available. Flash point **Evaporation rate** Not available. Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

Flammability limit - upper

(%)

Not available.

Explosive limit - lower (%) Not available. Explosive limit - upper (%) Not available. Not available.

Vapor pressure Vapor density Not available. Not available. Relative density Solubility in water Insoluble. Partition coefficient Not available.

(n-octanol/water)

Not available. **Auto-ignition temperature** Not available. **Decomposition temperature** Not available. Viscosity

Other information

Chemical family Corticosteroid.

Molecular formula C28H37ClO7

Molecular weight 521.04

Solubility (other) Slightly soluble in propylene glycol and in chloroform; moderately soluble in hexylene glycol;

sparingly soluble in acetone.

10. Stability and reactivity

ReactivityNo reactivity hazards known.
Chemical stability
Stable at normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid None known.

Incompatible materials Strong acids. Oxidizers. Strong bases.

Hazardous decomposition

products

Cl-. Irritating and/or toxic fumes or gases. Emits toxic fumes under fire conditions.

11. Toxicological information

Information on likely routes of exposure

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

InhalationDue to lack of data the classification is not possible.Skin contactDue to lack of data the classification is not possible.

Eye contact Causes eye irritation.

Symptoms related to the physical, chemical, and toxicological characteristics

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

Tremors.

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.

Delayed and immediate effects

of exposure

Corticosteroids: Fluid and electrolyte imbalance. Cushing's syndrome. Adrenal suppression.

Immune system depression. Withdrawal.

Cross sensitivity Persons sensitive to one corticosteroid 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.

Acute toxicity

Product Species Test Results

Alclometasone Dipropionate (CAS 66734-13-2)

Acute

Dermal

LD50 Rat > 75 mg/kg

Inhalation

LC50 Rat > 4.94 mg/l

Oral

LD50 Mouse > 5000 mg/kg

Rat 3593 mg/kg

Skin corrosion/irritation Causes skin irritation.
Serious eye damage/eye Causes eye irritation.

irritation

itation

Local effects

1 % Skin irritancy

Result: Moderate irritation.

Species: Human

Eye irritancy test in animals

Result: Slight, reversible conjunctival irritation.

Skin irritancy test in animals Result: Mild irritation.

Respiratory sensitization Due to lack of data the classification is not possible.

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

Material name: Alclometasone Dipropionate
4649 Version #: 02 Revision date: 01-31-2014 Issue date: 08-04-2010

Sensitization

Skin sensitization test in animals

Result: No sensitization.

Germ cell mutagenicity

Due to lack of data the classification is not possible. Data from germ cell mutagenicity tests were not found.

Mutagenicity

Ames test in S. typhimurium, with and without activation.

Result: Negative.

In vitro assays in mouse lymphoma cells and erythrocytes

Result: Negative.

Mutagenicity tests in E. coli, with and without activation.

Result: Negative.

Carcinogenicity

Due to lack of data the classification is not possible.

This material is not considered to be a carcinogen by IARC, NTP, or OSHA.

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.

Reproductivity

<= 0.75 mg/kg/day Reproductivity and development studies,

administered topically.

Result: Maternal toxicity; fetotoxicity; teratogenicity.

Species: Rabbit

<= 1200 mg/kg/day Reproductivity and development studies,

administered orally.

Result: Maternal toxicity; fetotoxicity; teratogenicity.

Species: Rabbit

Reproductivity and development studies, administered orally.

Result: Teratogenicity.

Species: Rat

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.

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

12. Ecological information

Ecotoxicity No ecotoxicity data noted for the ingredient(s).

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential Not available Mobility in soil Not available. Other adverse effects Not available

13. Disposal considerations

Disposal instructions Dispose in accordance with all applicable regulations. Under RCRA, it is the responsibility of the

user of the product to determine, at the time of disposal, whether the product meets RCRA criteria

for hazardous waste.

Local disposal regulations

Not available. Not available.

Waste from residues / unused

Hazardous waste code

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

14. Transport information

DOT

Not regulated as a hazardous material by DOT.

IATA

Not regulated as a dangerous good.

4649 Version #: 02 Revision date: 01-31-2014 Issue date: 08-04-2010

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No information available.

15. Regulatory information

US federal regulations CERCLA/SARA Hazardous Substances - Not applicable.

One or more components are not listed on TSCA.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

No

SARA 311/312 Hazardous

No

chemical

Other federal regulations

Safe Drinking Water Act

(SDWA)

Not regulated.

Food and Drug Administration (FDA) Not regulated.

Inventory name

US state regulations

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

Country(s) or region

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Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other information, including date of preparation or last revision

 Issue date
 08-04-2010

 Revision date
 01-31-2014

Version # 02

Further information Not available.

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contained herein.

Revision Information This document has undergone significant changes and should be reviewed in its entirety.

Material name: Alclometasone Dipropionate

USP SDS US

On inventory (yes/no)*

4649 Version #: 02 Revision date: 01-31-2014 Issue date: 08-04-2010