



# TRIAMCINOLONE HEXACETONIDE (16,17-ISOPROPYLIDENEDIOXY-D6, 98%)

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 02/12/2016

Revision date:

Version: 1.0

DLM-10026

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product form : Substance  
Substance name : TRIAMCINOLONE HEXACETONIDE (16,17-ISOPROPYLIDENEDIOXY-D6, 98%)  
CAS No : 5611-51-8 (Unlabeled)  
Product code : DLM-10026  
Formula : C30H35D6FO7  
Synonyms : Pregna-1,4-diene-3,20-dione, 21-(3,3-dimethyl-1-oxobutoxy)-9-fluoro-11-hydroxy-16,17-[(1-methylethylidene)bis(oxy)]-,(11beta, 16alpha)

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1. Relevant identified uses

Main use category : Professional use  
Industrial/Professional use spec : For professional use only

#### 1.2.2. Uses advised against

No additional information available

### 1.3. Details of the supplier of the safety data sheet

Cambridge Isotope Laboratories, Inc.  
50 Frontage Road  
Andover, MA 01810  
USA

USA: 1-800-322-1174 Int: 1-978-749-8000  
[cilsales@isotope.com](mailto:cilsales@isotope.com) [www.isotope.com](http://www.isotope.com)

### Emergency telephone number

Emergency numbers:

Chemtrec: 1-800-424-9300 (24 hours)  
International: 1-703-741-5970 (24 hours)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute Tox. 4 (Oral) H302  
Repr. 2 H361  
STOT RE 1 H372

Full text of hazard classes and H-statements : see section 16

#### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Repr.Cat.3; R62  
Repr.Cat.3; R63  
Xn; R22  
Xn; R48/22

Full text of R-phrases: see section 16

#### GHS-US classification

Acute Tox. 4 (Oral) H302  
Repr. 2 H361  
STOT RE 1 H372

Full text of H statements : see section 16

#### Adverse physicochemical, human health and environmental effects

No additional information available

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### 2.2. Label elements

#### Labeling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS08

GHS07

Signal word (CLP) :

Danger

Hazard statements (CLP) :

H302 - Harmful if swallowed  
H361 - Suspected of damaging fertility. Suspected of damaging the unborn child (in contact with skin, if inhaled, if swallowed)  
H372 - Causes damage to organs (endocrine system) through prolonged or repeated exposure (in contact with skin, if inhaled, if swallowed)

Precautionary statements (CLP) :

P260 - Do not breathe dust, fume, gas, mist, spray, vapors  
P264 - Wash hands, forearms and face thoroughly after handling  
P270 - Do not eat, drink or smoke when using this product  
P280 - Wear protective clothing, protective gloves  
P301+P312 - IF SWALLOWED: Call a doctor, a POISON CENTER if you feel unwell  
P314 - Get medical advice/attention if you feel unwell  
P330 - Rinse mouth  
P405 - Store locked up

#### GHS-US labeling

Hazard pictograms (GHS-US) :



GHS08

GHS07

Signal word (GHS-US) :

Danger

Hazard statements (GHS-US) :

H302 - Harmful if swallowed  
H361 - {0}message=Suspected of damaging fertility or the unborn child <state specific effect if known>|default=Suspected of damaging fertility or the unborn child|filter=(\_)?H\_361.+} (Dermal, Inhalation, oral) (Dermal, Inhalation, oral)  
H372 - Causes damage to organs (endocrine system) through prolonged or repeated exposure (Dermal, Inhalation, oral)

Precautionary statements (GHS-US) :

P201 - Obtain special instructions before use  
P202 - Do not handle until all safety precautions have been read and understood  
P260 - Do not breathe dust, fume, gas, vapors, spray, mist  
P264 - Wash hands, forearms and face thoroughly after handling  
P270 - Do not eat, drink or smoke when using this product  
P280 - Wear protective clothing, protective gloves  
P301+P312 - If swallowed: Call a poison center/doctor/... if you feel unwell  
P308+P313 - If exposed or concerned: Get medical advice/attention  
P314 - Get medical advice/attention if you feel unwell  
P330 - Rinse mouth  
P405 - Store locked up  
P501 - Dispose of contents/container to Comply with applicable regulations

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

| Name   | Product identifier   | %   | Classification according to Directive 67/548/EEC            |
|--|--|-----|---|
| TRIAMCINOLONE HEXACETONIDE (16,17-ISOPROPYLIDENEDIOXY-D6, 98%) | (CAS No) 5611-51-8 (Unlabeled)<br>(EC No)<br>(EC Index No) | 100 | Repr.Cat.3; R62<br>Repr.Cat.3; R63<br>Xn; R22<br>Xn; R48/22 |

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| Name   | Product identifier   | %   | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--|--|-----|---|
| TRIAMCINOLONE HEXACETONIDE (16,17-ISOPROPYLIDENEDIOXY-D6, 98%) | (CAS No) 5611-51-8 (Unlabeled)<br>(EC No)<br>(EC Index No) | 100 | Acute Tox. 4 (Oral), H302<br>Repr. 2, H361<br>STOT RE 1, H372   |

Full text of R- and H- phrases: see section 16

| Name   | Product identifier             | %   | GHS-US classification   |
|--|--------------------------------|-----|---|
| TRIAMCINOLONE HEXACETONIDE (16,17-ISOPROPYLIDENEDIOXY-D6, 98%)<br>(Main constituent) | (CAS No) 5611-51-8 (Unlabeled) | 100 | Acute Tox. 4 (Oral), H302<br>Repr. 2, H361<br>STOT RE 1, H372 |

Full text of H-phrases: see section 16

### 3.2. Mixtures

Not applicable

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                                       |   |
|---------------------------------------|---|
| First-aid measures general            | : Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.     |
| First-aid measures after inhalation   | : If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a physician. |
| First-aid measures after skin contact | : Rinse skin with water/shower. Get medical attention if irritation develops and persists.                      |
| First-aid measures after eye contact  | : Rinse with water. Get medical attention if irritation develops and persists.                                  |
| First-aid measures after ingestion    | : IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth with water.            |

### 4.2. Most important symptoms and effects, both acute and delayed

|                                      |   |
|--------------------------------------|---|
| Symptoms/injuries                    | : Fluid and electrolyte disturbances. Mood or mental changes.         |
| Symptoms/injuries after inhalation   | : May be harmful if inhaled. May cause respiratory tract irritation.  |
| Symptoms/injuries after skin contact | : May be harmful if absorbed through skin. May cause skin irritation. |
| Symptoms/injuries after eye contact  | : May cause eye irritation.   |
| Symptoms/injuries after ingestion    | : May be harmful if swallowed.  |

### 4.3. Indication of any immediate medical attention and special treatment needed

Treatment of corticosteroid overdose should be symptomatic and supportive and may include the following: Toxicity is low after acute ingestion. Gastrointestinal decontamination is generally not necessary. . 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. 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.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

### 5.2. Special hazards arising from the substance or mixture

Reactivity : Not available.

### 5.3. Advice for firefighters

|                                |  |
|--------------------------------|--|
| Firefighting instructions      | : Wear self contained breathing apparatus for fire fighting if necessary.                            |
| Protection during firefighting | : Do not enter fire area without proper protective equipment, including respiratory protection.      |
| Other information              | : Use water spray to cool unopened containers. As with all fires, evacuate personnel to a safe area. |

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures : Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wear appropriate protective clothing. Ensure adequate ventilation. Avoid inhalation of dust from the spilled material. Wear appropriate personal protective equipment.

#### 6.1.2. For emergency responders

No additional information available

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### 6.2. Environmental precautions

Do not let product enter drains.

### 6.3. Methods and material for containment and cleaning up

For containment : Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations. Avoid the generation of dusts during clean-up.

### 6.4. Reference to other sections

No additional information available

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. 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.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Keep container tightly closed in a dry and well-ventilated place.

Storage conditions : Store at room temperature away from light and moisture.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 8.2. Exposure controls

Appropriate engineering controls : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment : Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.



Materials for protective clothing : Wear suitable protective clothing and gloves.

Hand protection : Wear suitable protective clothing and gloves.

Eye protection : Wear safety glasses with side shields (or goggles) and a face shield.

Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : When appropriate, use NIOSH/CEN approved respirator.

Environmental exposure controls : Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Crystalline powder.

Molecular mass : 538.68 g/mol (Labeled)

Color : White to off-white.

Odor : Odourless.

Odor threshold : No data available

pH : No data available

Relative evaporation rate (butyl acetate=1) : No data available

Melting point : 295 - 296 °C (563 - 564.8 °F) (decomposes); also reported as 271 - 272 °C (decomposes)

Freezing point : No data available

Boiling point : No data available

Flash point : No data available

Auto-ignition temperature : No data available

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|                                 |  |
|---------------------------------|--|
| Decomposition temperature       | : No data available  |
| Flammability (solid, gas)       | : No data available  |
| Vapor pressure                  | : < 0.0000001 kPa at 25 °C   |
| Relative vapor density at 20 °C | : No data available  |
| Relative density                | : No data available  |
| Solubility                      | : Soluble in chloroform. Soluble in Dimethylformamide. Slightly soluble in methanol and acetone.<br>Water: - Practically insoluble |
| Log Pow                         | : 4.76   |
| Log Kow                         | : No data available  |
| Viscosity, kinematic            | : No data available  |
| Viscosity, dynamic              | : No data available  |
| Explosive properties            | : No data available  |
| Oxidizing properties            | : No data available  |
| Explosion limits                | : No data available  |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Not available.

### 10.2. Chemical stability

Stable if stored under recommended conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

### 10.4. Conditions to avoid

No additional information available

### 10.5. Incompatible materials

Acids. Bases. Oxidizing agents. Reducing agents.

### 10.6. Hazardous decomposition products

Irritating and toxic fumes and gases. Emits toxic fumes under fire conditions.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Oral: Harmful if swallowed.

| TRIAMCINOLONE HEXACETONIDE (16,17-ISOPROPYLIDENEDIOXY-D6, 98%) (5611-51-8 (Unlabeled)) |                           |
|--|---------------------------|
| LD50 oral rat  | 420 mg/kg                 |
| ATE CLP (oral)   | 500.000 mg/kg body weight |

|   |   |
|---|---|
| Skin corrosion/irritation                           | : Not classified  |
| Serious eye damage/irritation                       | : Not classified  |
| Respiratory or skin sensitization                   | : Not classified  |
| Germ cell mutagenicity                              | : Not classified  |
| Carcinogenicity                                     | : Not classified  |
| Reproductive toxicity                               | : 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. The base of this material increased the incidence of cleft palate in animal studies.  |
| Specific target organ toxicity – single exposure    | : Not classified  |
| Specific target organ toxicity – repeated exposure  | : Causes damage to organs (endocrine system) through prolonged or repeated exposure (in contact with skin, if inhaled, if swallowed).   |
| Aspiration hazard                                   | : Not classified  |
| Potential Adverse human health effects and symptoms | : Corticosteroids: Nausea. Vomiting. Headache. Acne. Increased hair growth. Lightheadedness. Weakness. Increased sweating. Numbness. Infection. Delayed wound healing. Thinning skin. Bruising. Purple lines on skin. Bone fractures. Back pain. Joint pain or stiffness. Increased appetite. Redistribution of body fat. Menstrual irregularities. Impotence. Tremors. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. |

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|                                      |   |
|--------------------------------------|---|
| Symptoms/injuries after inhalation   | : May be harmful if inhaled. May cause respiratory tract irritation.  |
| Symptoms/injuries after skin contact | : May be harmful if absorbed through skin. May cause skin irritation. |
| Symptoms/injuries after eye contact  | : May cause eye irritation.   |
| Symptoms/injuries after ingestion    | : May be harmful if swallowed.  |

### SECTION 12: Ecological information

#### 12.1. Toxicity

No additional information available

#### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

#### TRIAMCINOLONE HEXACETONIDE (16,17-ISOPROPYLIDENEDIOXY-D6, 98%) (5611-51-8 (Unlabeled))

|         |      |
|---------|------|
| Log Pow | 4.76 |
|---------|------|

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

No additional information available

#### 12.6. Other adverse effects

No additional information available

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Regional legislation (waste) : Waste materials should be disposed of under conditions which meet Federal, State, and Local environmental control regulations.

Product/Packaging disposal recommendations: : Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Ecology - waste materials : Dispose of as unused product.

### SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

#### 14.1. UN number

Not applicable

#### 14.2. UN proper shipping name

Not applicable

#### 14.3. Additional information

Other information : No supplementary information available.

Special transport precautions : Not dangerous goods.

#### Overland transport

No additional information available

#### Transport by sea

No additional information available

#### Air transport

No additional information available

#### 14.4. Environmental hazards

Other information : No supplementary information available.

#### 14.5. Special precautions for user

Special transport precautions : Not dangerous goods.

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

Not applicable

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

#### TRIAMCINOLONE HEXACETONIDE (16,17-ISOPROPYLIDENEDIOXY-D6, 98%) (5611-51-8 (Unlabeled))

|  |  |
|--|--|
| SARA Section 302 Threshold Planning Quantity (TPQ) | Not subject to reporting requirements of the United States SARA Section 302. |
| SARA Section 311/312 Hazard Classes                | Immediate (acute) health hazard  |
| SARA Section 313 - Emission Reporting              | Not subject to reporting requirements of the United States SARA Section 313. |

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### 15.2. International regulations

#### CANADA

##### TRIAMCINOLONE HEXACETONIDE (16,17-ISOPROPYLIDENEDIOXY-D6, 98%) (5611-51-8 (Unlabeled))

Not listed on the Canadian DSL (Domestic Substances List)

#### 15.2.1. National regulations

No additional information available

### 15.3. US State regulations

##### TRIAMCINOLONE HEXACETONIDE (16,17-ISOPROPYLIDENEDIOXY-D6, 98%)(5611-51-8 (Unlabeled))

|   |  |
|---|--|
| U.S. - California - Proposition 65 - Carcinogens List               | No   |
| U.S. - California - Proposition 65 - Developmental Toxicity         | No   |
| U.S. - California - Proposition 65 - Reproductive Toxicity - Female | No   |
| U.S. - California - Proposition 65 - Reproductive Toxicity - Male   | No   |
| State or local regulations  | U.S. - Pennsylvania - RTK (Right to Know) List<br>U.S. - New Jersey - Right to Know Hazardous Substance List |

## SECTION 16: Other information

Other information : This product is not radioactive. The data given for this product are those of the corresponding unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled compounds are generally not available, but are assumed to be similar or identical to the corresponding unlabeled compound.

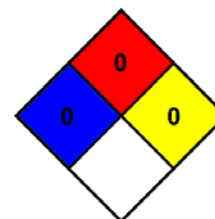
Full text of R-, H- and EUH-phrases:

|                     |  |
|---------------------|--|
| Acute Tox. 4 (Oral) | Acute toxicity (oral) Category 4   |
| Repr. 2             | Reproductive toxicity Category 2   |
| STOT RE 1           | Specific target organ toxicity (repeated exposure) Category 1                  |
| H302                | Harmful if swallowed   |
| H361                | Suspected of damaging fertility or the unborn child                            |
| H372                | Causes damage to organs through prolonged or repeated exposure                 |
| R22                 | Harmful if swallowed   |
| R48/22              | Harmful: danger of serious damage to health by prolonged exposure if swallowed |
| R62                 | Possible risk of impaired fertility  |
| R63                 | Possible risk of harm to the unborn child                                      |
| Xn                  | Harmful  |

NFPA health hazard : 0 - Materials that, under emergency conditions, would offer no hazard beyond that of ordinary combustible materials.

NFPA fire hazard : 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.

NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



### HMIS III Rating

Health : 0 Minimal Hazard - No significant risk to health

Flammability : 0 Minimal Hazard

Physical : 0 Minimal Hazard

CIL Multi-Solvent Mixture SDS

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*