



# Safety Data Sheet

Cat. # API-04

Dexamethasone [10mM]

Size: 1ml





# dexamethasone

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 11/18/2015

Revision date: 05/11/2017

Version: 7.1

### SECTION 1: Identification

#### 1.1. Identification

Product form	: Substance
Substance name	: dexamethasone
CAS-No.	: 50-02-2
Product code	: 115D
Formula	: C22H29FO5
Synonyms	: (11beta, 16alpha)-9-fluoro-11,17,21-trihydroxy-16-methylpregna-1,4-diene-3,20-dione / 16-alpha-methyl-9-alpha-fluoro-1,4-pregnadiene-11-beta, 17-alpha,21-triol-3,20-dione / 16-alpha-methyl-9-alpha-fluoro-11-beta,17-alpha,21-trihydroxypregna-1,4-diene-3,20-dione / 16-alpha-methyl-9-alpha-fluoro-1-dehydrocortisol / 16-alpha-methyl-9-alpha-fluoro-delta(*1)hydrocortisone / 16-alpha-methyl-9-alpha-fluoroprednisolone / 1-dehydro-16-alpha-methyl-9-alpha-fluorohydrocortisone / 4-alpha-fluoro-16-alpha-methyl-11-beta,17,21-trihydroxypregna-1,4-diene-3,20-dione / 9-alpha-fluoro-11-beta,17-alpha,21-trihydroxy-16-alpha-methylpregna-1,4-diene-3,20-dione / 9-alpha-fluoro-16-alpha-methyl-1,4-pregnadiene-11-beta,17-alpha,21-triol-3,20-dione / 9alpha-fluoro-16alpha-methyl-11beta,17alpha,21trihydroxy-1,4-pregnadiene-3,20-dione / 9-alpha-fluoro-16-alpha-methylprednisolone / 9-fluoro-11,17,21-trihydroxy-16-methylpregna-1,4-diene-3,20-dione / 9-fluoro-11-beta,17,21-trihydroxy-16-alpha-methylpregna-1,4-diene-3,20-dione / 9-fluoro-11beta,17alpha,21-trihydroxy-16alpha-methylpregna-1,4-diene-3,20-dione / aereoseb-D / aereoseb-DEX / anaflogistico / aphtasolon / azium / calonat / corson / corsone / cortisumman / decacortin / decaderm / decadron / decalix / decasone / decaspray / dectancyl / dekaort / delta(*1)-9-alpha-fluoro-16-alpha-methylcortisol / deltafluorene / dergramin / deronil / desadrene / desametasone / desamethasone / desameton / deseronil / dexa / dexacort / dexacortal / dexa-cortidelt / dexacortin / dexa-cortisyl / dexadeltone / dexafarm / dexafarma / dexalona / dexa-mamallet / dexameth / dexamethasone alcohol / dexamethazone / dexapolcort / dexapos / dexaprol / dexta-scheron / dexta-sine / dexason / dexasone / dex-ide / dextrinolon / dexinoral / dexmethason vetranal / dexone / dextelan / dezone / dinormon / DXMS (= dexamethasone) / fluormone / fluorocort / fortocortin / gammacorten / hexadecadrol / hexadrol / HL-DEX / isopto-dex / lokalison F / loverine / luxazone / maxidex / mexidex / millicorten / MK 125 / ocu-trol / oradexon / pet derm III / policort / prednisolon F / prednisolone F / pregna-1,4-diene-3,20-dione, 9-fluoro-11,17,21-trihydroxy-16-methyl-, (11beta,16alpha)- / pregna-1,4-diene-3,20-dione, 9-fluoro-11-beta,17,21-trihydroxy-16-alpha-methyl- / SK-dexamethasone / spoloven / superprednol / visumetazone
BIG No	: 16180

#### 1.2. Recommended use and restrictions on use

Use of the substance/mixture	: Pharmaceutical product: active ingredient Veterinary medicine: active ingredient
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#### 1.3. Supplier

Geno Technology, Inc./ G-Biosciences  
9800 Page Avenue  
Saint Louis, 63132-1429 - United States  
T 800-628-7730 - F 314-991-1504  
[technical@GBiosciences.com](mailto:technical@GBiosciences.com) - [www.GBiosciences.com](http://www.GBiosciences.com)

#### 1.4. Emergency telephone number

Emergency number	: Chemtrec <b>1-800-424-9300</b> (USA/Canada), <b>+1-703-527-3887</b> (Intl)
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### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS US classification

Not classified

#### 2.2. GHS Label elements, including precautionary statements

##### GHS US labeling

No labeling applicable

#### 2.3. Other hazards which do not result in classification

No additional information available

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### 2.4. Unknown acute toxicity (GHS US)

Not applicable

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

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Name	Common Name (Synonyms)	Product identifier	%	GHS US classification
<p>dexamethasone (Main constituent)</p>	<p>(11beta, 16alpha)-9-fluoro-11,17,21-trihydroxy-16-methylpregna-1,4-diene-3,20-dione / 16-alpha-methyl-9-alpha-fluoro-1,4-pregnadiene-11-beta,17-alpha,21-triol-3,20-dione / 16-alpha-methyl-9-alpha-fluoro-11-beta,17-alpha,21-trihydroxypregna-1,4-diene-3,20-dione / 16-alpha-methyl-9-alpha-fluoro-1-dehydrocortisol / 16-alpha-methyl-9-alpha-fluoro-delta(*1)hydrocortisone / 16-alpha-methyl-9-alpha-fluoroprednisolone / 1-dehydro-16-alpha-methyl-9-alpha-fluorohydrocortisone / 4-alpha-fluoro-16-alpha-methyl-11-beta,17,21-trihydroxypregna-1,4-diene-3,20-dione / 9-alpha-fluoro-11-beta,17-alpha,21-trihydroxy-16-alpha-methylpregna-1,4-diene-3,20-dione / 9-alpha-fluoro-16-alpha-methyl-1,4-pregnadiene-11-beta,17-alpha,21-triol-3,20-dione / 9alpha-fluoro-16alpha-methyl-11beta,17alpha,21trihydroxy-1,4-pregnadiene-3,20-dione / 9-alpha-fluoro-16-alpha-methylprednisolone / 9-fluoro-11,17,21-trihydroxy-16-methylpregna-1,4-diene-3,20-dione / 9-fluoro-11-beta,17,21-trihydroxy-16-alpha-methylpregna-1,4-diene-3,20-dione / 9-fluoro-11beta,17alpha,21-trihydroxy-16alpha-methylpregna-1,4-diene-3,20-dione / aroseb-D / aroseb-DEX / anaflogistico / aphtasolon / azium / calonat / corson / corsone / cortisumman / decacortin / decaderm / decadron / decalix / decasone / decaspray / dectancyl / dekacort / delta(*1)-9-alpha-fluoro-16-alpha-methylcortisol / deltafluorene / dergramin / deronil / desadrene / desametasone / desamethasone / desameton / deseronil / dexa / dexacort / dexacortal / dexa-cortidelt / dexacortin / dexa-cortisyl / dexadelton / dexafarm / dexafarma / dexalona / dexa-mamallet / dexameth / dexamethasone alcohol / dexamethazone / dexapocort / dexapos / dexaprol / dexa-scheroson / dexa-sine / dexason / dexasone / dex-ide / dextrinolon / dextrinoral / dexmethason vetranal / dexone / dextelan / dezone / dinormon / DXMS (= dexamethasone) / fluormone / fluorocort / fortocortin / gammacorten / hexadecadrol / hexadrol / HL-DEX / isopto-dex / lokalison F / loverine / luxazone / maxidex / mexidex / millicorten / MK 125 / ocu-trol / oradexon / pet derm III / policort / prednisolon F / prednisolone F / pregna-1,4-diene-3,20-dione, 9-fluoro-11,17,21-trihydroxy-16-methyl-, (11beta, 16alpha)- / pregna-1,4-diene-3,20-dione, 9-fluoro-11-beta,17,21-trihydroxy-16-alpha-methyl- / SK-dexamethasone / spoloven / superprednol / visumetasone</p>	<p>(CAS-No.) 50-02-2</p>	<p>100</p>	<p>Not classified</p>

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

### 3.2. Mixtures

Not applicable

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

- First-aid measures general : Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.
- First-aid measures after inhalation : Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.
- First-aid measures after skin contact : Rinse with water. Soap may be used. Take victim to a doctor if irritation persists.
- First-aid measures after eye contact : Rinse with water. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists.
- First-aid measures after ingestion : Rinse mouth with water. Call Poison Information Centre ([www.big.be/antigif.htm](http://www.big.be/antigif.htm)). Consult a doctor/medical service if you feel unwell. Ingestion of large quantities: immediately to hospital. Take the container/vomit to the doctor/hospital.

### 4.2. Most important symptoms and effects (acute and delayed)

- Symptoms/effects : See patient information on package leaflet.

### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media : Water spray. Alcohol-resistant foam. Polymer foam. ABC powder. Carbon dioxide.
- Unsuitable extinguishing media : No unsuitable extinguishing media known.

### 5.2. Specific hazards arising from the chemical

- Fire hazard : DIRECT FIRE HAZARD: No data available on direct fire hazard. INDIRECT FIRE HAZARD: No data available on indirect fire hazard.
- Explosion hazard : DIRECT EXPLOSION HAZARD: No data available on direct explosion hazard. INDIRECT EXPLOSION HAZARD: No data available on indirect explosion hazard.

### 5.3. Special protective equipment and precautions for fire-fighters

- Precautionary measures fire : Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Exposure to fire/heat: have neighbourhood close doors and windows.
- Firefighting instructions : Dilute toxic gases with water spray.
- Protection during firefighting : Heat/fire exposure: compressed air/oxygen apparatus.

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

- Protective equipment : Gloves. Protective clothing.
- Emergency procedures : Mark the danger area. No naked flames. Wash contaminated clothes.

#### 6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Prevent spreading in sewers.

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

- For containment : Contain released product. Dam up the solid spill.
- Methods for cleaning up : Scoop solid spill into closing containers. Carefully collect the spill/leftovers. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.
- Other information : Dispose of materials or solid residues at an authorized site.

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### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Comply with the legal requirements. Clean contaminated clothing. Do not discharge the waste into the drain. Avoid raising dust. Keep away from naked flames/heat. Observe normal hygiene standards. Keep container tightly closed. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

Storage conditions : Store in a well-ventilated place. Keep cool.

Heat-ignition : KEEP SUBSTANCE AWAY FROM: heat sources.

Information on mixed storage : KEEP SUBSTANCE AWAY FROM: oxidizing agents. (strong) acids.

Storage area : Store in a dry area. Store in a dark area. Meet the legal requirements.

Special rules on packaging : SPECIAL REQUIREMENTS: closing. opaque. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.

Packaging materials : SUITABLE MATERIAL: No data available. MATERIAL TO AVOID: No data available.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### dexamethasone (50-02-2)

No additional information available

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

#### Materials for protective clothing:

GIVE EXCELLENT RESISTANCE: No data available. GIVE GOOD RESISTANCE: No data available. GIVE LESS RESISTANCE: No data available. GIVE POOR RESISTANCE: No data available

#### Hand protection:

Gloves

#### Eye protection:

Safety glasses. In case of dust production: protective goggles

#### Skin and body protection:

Protective clothing

#### Respiratory protection:

Dust production: dust mask with filter type P1

## SECTION 9: Physical and chemical properties

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

Physical state : Solid

Appearance : Crystalline solid. Crystalline powder. May be present in various forms.

Color : White

Odor : No data available on odour

Odor threshold : No data available

pH : No data available

Melting point : 262 °C

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Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Non flammable.
Vapor pressure	: < 0.1 hPa (20 °C)
Relative vapor density at 20 °C	: No data available
Relative density	: Not applicable
Molecular mass	: 392.47 g/mol
Solubility	: Insoluble in water. Soluble in ethanol. Soluble in acetone. Soluble in chloroform. Water: 0.01 g/100ml (25 °C)
Log Pow	: 1.83 (Experimental value)
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: Not applicable
Explosive properties	: No data available
Oxidizing properties	: No data available

### 9.2. Other information

VOC content : 0 %

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

On burning: release of toxic and corrosive gases/vapours (hydrofluoric acid, carbon monoxide - carbon dioxide).

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Hazardous decomposition products.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

#### dexamethasone (50-02-2)

LD50 oral rat	> 3000 mg/kg (Rat)
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	: Not classified
Specific target organ toxicity – single exposure	: Not classified

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Specific target organ toxicity – repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Symptoms/effects	: See patient information on package leaflet.

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
Ecology - air	: Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009). TA-Luft Klasse 5.2.1.
Ecology - water	: Mild water pollutant (surface water). Maximum concentration in drinking water: 1.5 mg/l (fluoride) (Directive 98/83/EC). No data available on ecotoxicity.

#### 12.2. Persistence and degradability

dexamethasone (50-02-2)	
Persistence and degradability	Biodegradability in water: no data available.

#### 12.3. Bioaccumulative potential

dexamethasone (50-02-2)	
Log Pow	1.83 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

No additional information available

### SECTION 13: Disposal considerations

#### 13.1. Disposal methods

Waste treatment methods	: Waste treatment methods.
Product/Packaging disposal recommendations	: Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Dissolve or mix with a combustible solvent. Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber with energy recovery. Do not discharge into the sewer.
Additional information	: LWCA (the Netherlands): KGA category 04. Hazardous waste according to Directive 2008/98/EC.

### SECTION 14: Transport information

#### Department of Transportation (DOT)

In accordance with DOT

Other information : No supplementary information available.

#### Transportation of Dangerous Goods

#### Transport by sea

#### Air transport



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### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

##### dexamethasone (50-02-2)

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

#### 15.2. International regulations

##### CANADA

##### EU-Regulations

##### National regulations

No additional information available

#### 15.3. US State regulations

### SECTION 16: Other information

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SDS US (GHS HazCom 2012)

*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.*