# SIGMA-ALDRICH

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# **Material Safety Data Sheet**

Version 5.0 Revision Date 07/04/2012 Print Date 09/11/2013

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Betamethasone

Product Number B9675

Brand : Sigma-Aldrich

Supplier Sigma-Aldrich

3050 Spruce Street SAINT LOUIS MO 63103

USA

Telephone +1 800-325-5832

Fax +1 800-325-5052 Emergency Phone # (For (314) 776-6555

both supplier and manufacturer)

Preparation Information Sigma-Aldrich Corporation

Product Safety - Americas Region

1-800-521-8956

#### 2. HAZARDS IDENTIFICATION

### **Emergency Overview**

**OSHA Hazards** 

Teratogen

**GHS Classification** 

Acute toxicity, Oral (Category 5)

### GHS Label elements, including precautionary statements

Pictogram

none

Signal word

Warning

Hazard statement(s)

H303 May be harmful if swallowed.

Precautionary

none

statement(s)

**HMIS Classification** 

Health hazard: Chronic Health Hazard: Flammability: 0

Physical hazards:

NFPA Rating

Health hazard: 0 Fire: 0

Reactivity Hazard: 0

#### Potential Health Effects

Inhalation Skin

May be harmful if inhaled. May cause respiratory tract irritation. May be harmful if absorbed through skin. May cause skin irritation.

Eves May cause eye irritation. Ingestion May be harmful if swallowed.

0

Sigma-Aldrich - B9675

Delivery 0845719189-000030 Purchase Order 0000000050

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms

: 9α-Fluoro-16β-methyl-11β,17α,21-trihydroxy-1,4-pregnadiene-3,20-dione

9α-Fluoro-16β-methylprednisolone

9α-Fluoro-11β,17α,21-trihydroxy-16β-methylpregna-1,4-diene-3,20-dione

Formula : C22H29FO5 Molecular Weight : 392.46 g/mol

| Component     |           | Concentration |
|---------------|-----------|---------------|
| Betamethasone |           |               |
| CAS-No.       | 378-44-9  | -             |
| EC-No.        | 206-825-4 | 753.69        |

## 4. FIRST AID MEASURES

#### General advice

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

#### If inhaled

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

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

### In case of eye contact

Flush eyes with water as a precaution.

### If swallowed

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

### 5. FIREFIGHTING MEASURES

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### Special protective equipment for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

#### Hazardous combustion products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen fluoride

### 6. ACCIDENTAL RELEASE MEASURES

# Personal precautions

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Avoid breathing dust.

### **Environmental precautions**

Do not let product enter drains.

# Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

### 7. HANDLING AND STORAGE

# Precautions for safe handling

Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

#### Conditions for safe storage

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

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#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

### Personal protective equipment

#### Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Immersion protection

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: > 480 min

Material tested:Dermatril® (Aldrich Z677272, Size M)

Splash protection

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: > 30 min

Material tested:Dermatril® (Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 873000, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an Industrial Hygienist familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

#### Eve protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin and body protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Hygiene measures

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

# 9. PHYSICAL AND CHEMICAL PROPERTIES

# Appearance

Form solid

30110

Colour no data available

Safety data

pH no data available

Melting Point/range: 235 - 237 ℃ (455 - 459 ℉)

point/freezing point

Boiling point no data available
Flash point no data available

Ignition temperature no data available

Sigma-Aldrich - B9675 Delivery 0845719189-000030 Purchase Order 0000000050 Autoignition temperature no data available

Lower explosion limit no data available
Upper explosion limit no data available
Vapour pressure no data available
Density no data available
Water solubility no data available

Partition coefficient: no data available

n-octanol/water

Relative vapour no data available density

Odour Odour Threshold no data available

Evaporation rate no data available

# 10. STABILITY AND REACTIVITY

#### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

no data available

### Conditions to avoid

no data available

### Materials to avoid

Strong oxidizing agents

### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen fluoride Other decomposition products - no data available

### 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

# Oral LD50

LD50 Oral - mouse - > 4,500 mg/kg

Inhalation LC50

no data available

#### Dermal LD50

no data available

### Other information on acute toxicity

no data available

### Skin corrosion/irritation

no data available

#### Serious eye damage/eye irritation

no data available

### Respiratory or skin sensitization

no data available

### Germ cell mutagenicity

no data available

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#### Carcinogenicity

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.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a

known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a

carcinogen or potential carcinogen by OSHA.

#### Reproductive toxicity

no data available

#### Teratogenicity

Possible risk of congenital malformation in the fetus.

### Specific target organ toxicity - single exposure (Globally Harmonized System)

no data available

# Specific target organ toxicity - repeated exposure (Globally Harmonized System)

no data available

### Aspiration hazard

no data available

### Potential health effects

Inhalation

May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion May be harmful if swallowed.

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

#### Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## Synergistic effects

no data available

#### Additional Information

RTECS: Not available

### 12. ECOLOGICAL INFORMATION

# Toxicity

no data available

## Persistence and degradability

no data available

#### Bioaccumulative potential

no data available

# Mobility in soil

no data available

# PBT and vPvB assessment

no data available

#### Other adverse effects

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#### 13. DISPOSAL CONSIDERATIONS

#### Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

### Contaminated packaging

Dispose of as unused product.

#### 14. TRANSPORT INFORMATION

#### DOT (US)

Not dangerous goods

#### IMDG

Not dangerous goods

#### IATA

Not dangerous goods

#### 15. REGULATORY INFORMATION

#### **OSHA Hazards**

Teratogen

#### SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### SARA 311/312 Hazards

Chronic Health Hazard

# Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

### Pennsylvania Right To Know Components

CAS-No. Revision Date Betamethasone

378-44-9

### New Jersey Right To Know Components

CAS-No. Revision Date Betamethasone

378-44-9

# California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

#### 16. OTHER INFORMATION

# Further information

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