# **SIGMA-ALDRICH**

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# **Material Safety Data Sheet**

Version 4.2 Revision Date 01/18/2011 Print Date 04/03/2011

1. PRODUCT AND COMPANY	DENT	IFICATION				-
Product name	:	Diflorasone diacetate				
Product Number Brand Product Use	:	D8286 Fluka For laboratory research purposes.				
Supplier	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA	Manufacturer	:	Sigma-Aldrich Corporation 3050 Spruce St. St. Louis, Missouri 63103 USA	
Telephone	:	+1 800-325-5832				
Fax	:	+1 800-325-5052				
Emergency Phone # (For both supplier and manufacturer)	:	(314) 776-6555				
Preparation Information	:	Sigma-Aldrich Corporation Product Safety - Americas Region 1-800-521-8956				

# 2. HAZARDS IDENTIFICATION

**Emergency Overview** 

## **OSHA Hazards**

Toxic by inhalation., Harmful by skin absorption., Carcinogen

### **GHS Classification**

Acute toxicity, Inhalation (Category 4) Acute toxicity, Dermal (Category 4) Acute toxicity, Oral (Category 5) Carcinogenicity (Category 2)

#### GHS Label elements, including precautionary statements

Pictogram



Signal word	Warning
Hazard statement(s) H303 H312 + H332 H351	May be harmful if swallowed. Harmful in contact with skin or if inhaled. Suspected of causing cancer.
Precautionary statement(s) P280	) Wear protective gloves/ protective clothing.
HMIS Classification Health hazard: Chronic Health Hazard: Flammability: Physical hazards:	2 * 0 0
NFPA Rating Health hazard: Fire:	2 0

Reactivity Hazard:	0
Potential Health Effects	
Inhalation Skin Eyes Ingestion	Toxic if inhaled. May cause respiratory tract irritation. May cause skin irritation. May cause eye irritation. May be harmful if swallowed.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms	$6\alpha$ ,9-Difluoro-11 $\beta$ ,17,21-trihydroxy-16 $\beta$ -methylpregna-1,4-diene-3,20-didiacetate	one 17,21-
Formula Molecular Weight	C <sub>26</sub> H <sub>32</sub> F <sub>2</sub> O <sub>7</sub> C <sub>26</sub> H <sub>32</sub> F <sub>2</sub> O <sub>7</sub> 494.52 g/mol	

EC-No.	Index-No.	Concentration
te)		
251-575-1	-	-
	te)	te)

## 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. FIRE-FIGHTING MEASURES**

#### Suitable extinguishing media

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

#### Special protective equipment for fire-fighters

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

#### **Environmental precautions**

Prevent further leakage or spillage if safe to do so. 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 contact with skin and eyes. 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.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

#### Personal protective equipment

#### **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. 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.

#### Eye protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

### Skin and body protection

Complete suit protecting against chemicals, 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
Colour	no data available
Safety data	
рН	no data available
Melting/freezing point	no data available
Boiling point	no data available
Flash point	no data available
Ignition temperature	no data available
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: n-octanol/water	no data available
Relative vapour	no data available

density	
Odour	no data available
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

no data available

#### 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 - rat - > 3,000 mg/kg

Inhalation LC50 Dermal LD50 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

#### Carcinogenicity

Limited evidence of carcinogenicity in animal studies

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

no data available

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

InhalationToxic if inhaled. May cause respiratory tract irritation.IngestionMay be harmful if swallowed.SkinMay cause skin irritation.EyesMay cause eye irritation.

Synergistic effects no data available

Additional Information RTECS: TU3722000

## **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

no data available

### **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) Fluka - D8286 Not dangerous goods

#### IMDG

Not dangerous goods

#### ΙΑΤΑ

Not dangerous goods

## **15. REGULATORY INFORMATION**

## **OSHA Hazards**

Toxic by inhalation., Harmful by skin absorption., Carcinogen

#### **DSL Status**

This product contains the following components that are not on the Canadian DSL nor NDSL lists.

#### 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.

CAS-No. 33564-31-7

#### SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard

#### Massachusetts Right To Know Components

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

Pennsylvania Right To Know Components		
Diflorasone di(acetate)	CAS-No. 33564-31-7	Revision Date
New Jersey Right To Know Components	CAS-No.	Revision Date
Diflorasone di(acetate)	33564-31-7	Revision Date

#### 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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