

SECTION 1: Identification of the substance/mixture and of the company/undertaking						
1.1	Product identifiers					
	Product name	:	Delta <h 9="">-Tetrahydrocannabinolic acid A</h>			
	Product Number Brand CAS-No.	:	39382 Sigma-Aldrich 23978-85-0			
1.2	1.2 Relevant identified uses of the substance or mixture and uses advised against					
	Identified uses	:	Laboratory chemicals, Synthesis of substances			
	Uses advised against	:	The product is being supplied under the TSCA R&D Exemption (40 CFR Section 720.36). It is the recipient's responsibility to comply with the requirements of the R&D exemption. The product may not be used for a non-exempt commercial purpose under TSCA unless appropriate consent is granted in writing by MilliporeSigma.			
1.3	Details of the supplier of the safety data sheet					
	Company	:	Sigma-Aldrich Inc. 3050 SPRUCE ST ST. LOUIS MO 63103 UNITED STATES			
	Telephone Fax	:	+1 314 771-5765 +1 800 325-5052			
1.4	Emergency telephone					
	Emergency Phone #	:	800-424-9300 CHEMTREC (USA) +1-703- 527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week			

### SECTION 2: Hazards identification

## 2.1 Classification of the substance or mixture

Not a hazardous substance or mixture.

## 2.2 GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

## 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

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## **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

Synonyms	: Δ9-Tetrahydrocannabinolic acid	A
Formula Molecular weight CAS-No.	: C22H30O4 : 358.47 g/mol : 23978-85-0	

No components need to be disclosed according to the applicable regulations.

## **SECTION 4: First aid measures**

#### 4.1 Description of first-aid measures

#### If inhaled

After inhalation: fresh air.

#### In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

#### In case of eye contact

After eye contact: rinse out with plenty of water. Remove contact lenses.

#### If swallowed

After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

**4.3 Indication of any immediate medical attention and special treatment needed** No data available

## **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

## Suitable extinguishing media Water Foam Carbon dioxide (CO2) Dry powder

**Unsuitable extinguishing media** For this substance/mixture no limitations of extinguishing agents are given.

## 5.2 Special hazards arising from the substance or mixture

Carbon oxides Combustible. Development of hazardous combustion gases or vapours possible in the event of fire.

### 5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

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## 5.4 Further information

Prevent fire extinguishing water from contaminating surface water or the ground water system.

## **SECTION 6:** Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.
- **6.2 Environmental precautions** Do not let product enter drains.
- **6.3 Methods and materials for containment and cleaning up** Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.
- **6.4** Reference to other sections For disposal see section 13.

#### **SECTION 7: Handling and storage**

**7.1 Precautions for safe handling** For precautions see section 2.2.

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

**Storage conditions** Tightly closed. Dry. **Storage stability**Recommended storage temperature -20 °C Store under inert gas.

### **Storage class** Storage class (TRGS 510): 11: Combustible Solids

### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

**Ingredients with workplace control parameters** Contains no substances with occupational exposure limit values.

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## 8.2 Exposure controls

## Appropriate engineering controls

Change contaminated clothing. Wash hands after working with substance.

## Personal protective equipment

## Eye/face protection

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

## Skin protection

Handle with impervious gloves.

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Full contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested:KCL 741 Dermatril® L

Splash contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested:KCL 741 Dermatril® L

## **Respiratory protection**

Recommended Filter type: Filter type P1 The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented. required when dusts are generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

### **Control of environmental exposure**

Do not let product enter drains.

### **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

- a) Appearance Form: solid
- b) Odor
- No data available
- c) Odor Threshold
- No data available No data available

d) pH Sigma-Aldrich - 39382

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e)	Melting	No data available
	point/freezing point	
f)	Initial boiling point and boiling range	No data available
g)	Flash point	()No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapor pressure	No data available
I)	Vapor density	No data available
m)	Density	No data available
	Relative density	No data available
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Autoignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
r) s)	Viscosity Explosive properties	No data available No data available

9.2 Other safety information No data available

## SECTION 10: Stability and reactivity

#### **10.1 Reactivity**

The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

## **10.2 Chemical stability**

The product is chemically stable under standard ambient conditions (room temperature) .

### 10.3 Possibility of hazardous reactions No data available

### **10.4** Conditions to avoid

no information available Sigma-Aldrich - 39382

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#### **10.5 Incompatible materials** Strong oxidizing agents

**10.6 Hazardous decomposition products** In the event of fire: see section 5

### SECTION 11: Toxicological information

## 11.1 Information on toxicological effects

## Acute toxicity

Oral: No data available Inhalation: No data available Dermal: No data available No data available

#### Skin corrosion/irritation

Remarks: No data available

**Serious eye damage/eye irritation** Remarks: No data available

#### **Respiratory or skin sensitization** No data available

Germ cell mutagenicity

No data available

#### Carcinogenicity

- IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- NTP: No ingredient 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 on OSHA's list of regulated carcinogens.

### **Reproductive toxicity**

No data available No data available

#### Specific target organ toxicity - single exposure No data available

Specific target organ toxicity - repeated exposure No data available

**Aspiration hazard** No data available

## **11.2 Additional Information**

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

Stomach - Irregularities - Based on Human Evidence

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SECTION 12:	Ecological	information
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#### **12.1 Toxicity** No data available

- 12.2 Persistence and degradability No data available
- **12.3 Bioaccumulative potential** No data available
- **12.4 Mobility in soil** No data available
- **12.5 Results of PBT and vPvB assessment** PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
- **12.6 Endocrine disrupting properties** No data available

# 12.7 Other adverse effects

No data available

## SECTION 13: Disposal considerations

## **13.1 Waste treatment methods**

### Product

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

## **SECTION 14: Transport information**

## DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

## ΙΑΤΑ

Not dangerous goods

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Not classified as dangerous in the meaning of transport regulations.

## **SECTION 15: Regulatory information**

#### **CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

## SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

Components	CAS-No.	Component TPQ (lbs)			
SARA 311/312 Hazards	: Chronic Health Ha	izard			
SARA 313	components with	s not contain any chemical known CAS numbers that exceed the imis) reporting levels established by ction 313.			
US State Regulations					
Massachusetts Right To Know					
No components are subject to the Massachusetts Right to Know Act.					
Massachusetts Right To Know No components are subject to the Massachusetts Right to Know Act.					
Pennsylvania Right To K	lnow				
$\Delta 9$ -Tetrahydrocannabinolic acid A		23978-85-0			
Maine Chemicals of High					
Product does not contain any listed chemicals					
Vermont Chemicals of H	-				
Product does not contain any listed chemicals					
Washington Chemicals of High Concern Product does not contain any listed chemicals					
New Jersey Right To Know					
Δ9-Tetrahydrocan	Tetrahydrocannabinolic acid A				

## The ingredients of this product are reported in the following inventories:

TSCA

: Product contains substance(s) not listed on TSCA inventory.

### **TSCA list**

No substances are subject to a Significant New Use Rule.

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No substances are subject to TSCA 12(b) export notification requirements.

## **SECTION 16: Other information**

### **Further information**

The information is believed to be correct but is not exhaustive and will be used solely as a guideline, which is based on current knowledge of the chemical substance or mixture and is applicable to appropriate safety precautions for the product. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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