# SIGMA-ALDRICH

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SAFETY DATA SHEET

Version 5.0 Revision Date 06/23/2016 Print Date 10/29/2018

Molecular weight : 360.49 g/mol	1. PRODUCT AND COMP				
Brand       : Sigma         CAS-No.       : 78919-13-8         1.2       Relevant identified uses of the substance or mixture and uses advised against Identified uses       : Laboratory chemicals, Synthesis of substances         1.3       Details of the supplier of the safety data sheet Company       : Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA         Telephone       : +1 800-325-5832         Fax       : +1 1800-325-5052         1.4       Emergency telephone number         Emergency telephone at the substance or mixture         Not a hazardous substance or mixture.         2.1       Classification of the 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         3.       COMPOSITION/INFORMATION ON INGREDIENTS         3.1       Substances Synonyms       : Cilaprost ZK 36374 (5E)-5-[(3a, 3AR, 5R, 6a, 5)-hexahydro-5-hydroxy-4-[(1E, 3S)-3-hydroxy-4- methyl-1-octen-6-ynyl]-2(1H)-pentalenplentancic acid (E)-(3a, 4R, 5R, 6a, 5)-hexahydro-5-hydroxy-4-[(1E, 3S)-3-hydroxy-4- methyl-1-octen-6-ynyl]-2(1H)-pentalenplentancic acid Molecular weight					
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	Molecular weight CAS-No.	: 360.49 g/mol : 78919-13-8			

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

# 4. FIRST AID MEASURES

# 4.1 Description of first aid measures

# General advice

Move out of dangerous area.

# If inhaled

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

# In case of skin contact

Wash off with soap and plenty of water.

# 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.

# **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

# 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 No data available

# 5.3 Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information No data available

# 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures Avoid dust formation. Avoid breathing vapours, mist or gas. For personal protection see section 8.

#### 6.2 Environmental precautions No special environmental precautions required.

- **6.3 Methods and materials for containment and cleaning up** Sweep up and shovel. Keep in suitable, closed containers for disposal.
- 6.4 Reference to other sections For disposal see section 13.

# 7. HANDLING AND STORAGE

# 7.1 Precautions for safe handling

Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature -20 °C

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Store with desiccant.

#### 7.3 Specific end use(s)

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

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## 8.1 Control parameters

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

# 8.2 Exposure controls

# Appropriate engineering controls

General industrial hygiene practice.

# 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).

#### Skin 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.

#### **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.

## **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).

#### Control of environmental exposure

No special environmental precautions required.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

# 9.1 Information on basic physical and chemical properties

a)	Appearance	Form: solid
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	рН	No data available
e)	Melting point/freezing point	No data available
f)	Initial boiling point and boiling range	No data available
g)	Flash point	No data available
g) h)	Flash point Evaporation rate	No data available No data available
0,	·	
h)	Evaporation rate	No data available
h) i)	Evaporation rate Flammability (solid, gas) Upper/lower flammability or	No data available No data available

m)	Relative density	No data available		
n)	Water solubility	No data available		
o)	Partition coefficient: n- octanol/water	No data available		
p)	Auto-ignition temperature	No data available		
q)	Decomposition temperature	No data available		
r)	Viscosity	No data available		
s)	Explosive properties	No data available		
t)	Oxidizing properties	No data available		
Other safety information				

No data available

## **10. STABILITY AND REACTIVITY**

# 10.1 Reactivity

9.2

No data available

**10.2 Chemical stability** Stable under recommended storage conditions.

- 10.3 Possibility of hazardous reactions No data available
- **10.4 Conditions to avoid** No data available
- **10.5 Incompatible materials** Strong oxidizing agents

# 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Nature of decomposition products not known. Other decomposition products - No data available In the event of fire: see section 5

# **11. TOXICOLOGICAL INFORMATION**

# 11.1 Information on toxicological effects

#### Acute toxicity

LD50 Oral - Rat - > 100 mg/kg

Inhalation: No data available

Dermal: No data available

No data available

Skin corrosion/irritation No data available

Serious eye damage/eye irritation No data available

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

Germ cell mutagenicity No data available

# 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.

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- 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

Reproductive toxicity - Rat - Intravenous Maternal Effects: Parturition. Effects on Newborn: Viability index (e.g., # alive at day 4 per # born alive). Effects on Newborn: Weaning or lactation index (e.g., # alive at weaning per # alive at day 4).

Reproductive toxicity - Rat - Intravenous

Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants). Effects on Embryo or Fetus: Fetal death.

#### No data available

Developmental Toxicity - Rat - Intravenous

Specific Developmental Abnormalities: Musculoskeletal system. Effects on Newborn: Growth statistics (e.g., reduced weight gain).

# Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure No data available

Aspiration hazard

No data available

# **Additional Information**

RTECS: Not available

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

Stomach - Irregularities - Based on Human Evidence Stomach - Irregularities - Based on Human Evidence

# **12. ECOLOGICAL INFORMATION**

#### 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 Other adverse effects

No data available

# **13. DISPOSAL CONSIDERATIONS**

# 13.1 Waste treatment methods

#### Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

#### 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**

#### SARA 302 Components

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

#### SARA 313 Components

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.

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0 0

Pennsylvania Right To Know Components		
	CAS-No.	Revision Date
Pentanoic acid, 5-(hexahydro-5-hydroxy-4-(3-hydroxy-4- methyl-1-octen-6-ynyl)-2(1H)-pentalenylidene)-	78919-13-8	
New Jersey Right To Know Components		
	CAS-No.	Revision Date
Pentanoic acid, 5-(hexahydro-5-hydroxy-4-(3-hydroxy-4- methyl-1-octen-6-ynyl)-2(1H)-pentalenylidene)-	78919-13-8	

#### 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**

HMIS Rating
Health hazard:
Chronic Health Hazard:
Flammability:
Physical Hazard
NEDA Rating

NFFA Kaung	
Health hazard:	0
Fire Hazard:	0
Reactivity Hazard:	0

#### **Further information**

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