

# SAFETY DATA SHEET

Version 5.1 Revision Date 05/15/2018 Print Date 11/15/2018

Avanti Polar Lipids, Inc. 700 Industrial Park Drive, Alabaster, AL 35007, USA • (800) 227-0651 • (205) 663-2494

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### 1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : N-[6-[(7-nitro-2-1,3-benzoxadiazol-4-

yl)amino]hexanoyl]-D-erythro-sphingosine

Product Number : 810209X Brand : AVANTI

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 : Avanti Polar Lipids, INC

700 Industrial Park Drive Alabaster, Al 35007 United States of America

Telephone : (205) 663-2494 Fax : (205) 663-0756

1.4 Emergency telephone number

Emergency Phone # : +1 703-741-5970 / 1800-424-9300(CHEMTREC)

## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity, Oral (Category 4), H302 Acute toxicity, Inhalation (Category 3), H331 Acute toxicity, Dermal (Category 4), H312 Skin irritation (Category 2), H315

Skin irritation (Category 2), H315 Eye irritation (Category 2A), H319 Carcinogenicity (Category 2), H351 Reproductive toxicity (Category 2), H361d

Specific target organ toxicity - single exposure (Category 1), Eyes, H370

Specific target organ toxicity - single exposure (Category 3), Central nervous system, H336

Specific target organ toxicity - repeated exposure (Category 1), Liver, Kidney, H372

Acute aquatic toxicity (Category 3), H402

For the full text of the H-Statements mentioned in this Section, see Section 16.

### 2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word Danger

Hazard statement(s)

H302 + H312 Harmful if swallowed or in contact with skin.

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H315 H319 H331 H336 H351 H361d H370	Causes skin irritation. Causes serious eye irritation. Toxic if inhaled. May cause drowsiness or dizziness. Suspected of causing cancer. Suspected of damaging the unborn child. Causes damage to organs (Eyes). Causes damage to organs (Liver, Kidney) through prolonged or repeated exposure.
H402	Harmful to aquatic life.
Precautionary statement(s) P201 P202	Obtain special instructions before use.  Do not handle until all safety precautions have been read and
P260 P264 P270 P271 P273 P280 P301 + P312 + P330 P302 + P352 + P312 P304 + P340 + P311	understood.  Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  Wash skin thoroughly after handling.  Do not eat, drink or smoke when using this product.  Use only outdoors or in a well-ventilated area.  Avoid release to the environment.  Wear protective gloves/ protective clothing/ eye protection/ face protection.  IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.  Rinse mouth.  IF ON SKIN: Wash with plenty of water.Call a POISON CENTER/doctor if you feel unwell.  IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor.
P305 + P351 + P338  P307 + P311 P332 + P313 P337 + P313 P362 P403 + P233 P405 P501	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  IF exposed: Call a POISON CENTER or doctor/ physician.  If skin irritation occurs: Get medical advice/ attention.  If eye irritation persists: Get medical advice/ attention.  Take off contaminated clothing and wash before reuse.  Store in a well-ventilated place. Keep container tightly closed.  Store locked up.  Dispose of contents/ container to an approved waste disposal plant.

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

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

# 3.2 Mixtures

Synonyms : C6-NBD Ceramide

**Hazardous components** 

Component		Classification	Concentration
Chloroform			
CAS-No. EC-No. Index-No.	67-66-3 200-663-8 602-006-00-4	Acute Tox. 4; Acute Tox. 3; Skin Irrit. 2; Eye Irrit. 2A; Carc. 2; Repr. 2; STOT SE 3; STOT RE 1; Aquatic Acute 3; H302, H315, H319, H331, H336, H351, H361d, H372, H402	70 - 90 %
Methanol			
CAS-No.	67-56-1	Flam. Liq. 2; Acute Tox. 3;	20 - 30 %
EC-No.	200-659-6	STOT SE 1; H225, H301 +	
Index-No.	603-001-00-X	H311 + H331, H370	
Registration number	01-2119433307-44-XXXX		

For the full text of the H-Statements mentioned in this Section, see Section 16.

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### 4. FIRST AID MEASURES

### 4.1 Description of 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. Take victim immediately to hospital. Consult a physician.

## In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

### If swallowed

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

### 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

Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

For personal protection see section 8.

### 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

### 6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. 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

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

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. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage temperature -25 - -15 °C Storage class (TRGS 510): 3: Flammable liquids

# 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

Component	CAS-No.	Value	Control	Basis		
011 (	07.00.0	T14/4	parameters	1104 40011171 1 11111 1111		
Chloroform	67-66-3	TWA	10 ppm	USA. ACGIH Threshold Limit Values (TLV)		
	Remarks	Liver damage Embryo/fetal damage Confirmed animal carcinogen with unknown relevance to humans				
		ST	2 ppm	USA. NIOSH Recommended		
			9.78 mg/m3	Exposure Limits		
		Potential Occupational Carcinogen See Appendix A				
		С	50 ppm	USA. Occupational Exposure Limits		
			240 mg/m3	(OSHA) - Table Z-1 Limits for Air		
				Contaminants		
		The value in mg/m3 is approximate.				
		Ceiling limit is to be determined from breathing-zone air samples				
		PEL	2 ppm	California permissible exposure		
			9.78 mg/m3	limits for chemical contaminants		
				(Title 8, Article 107)		
Methanol	67-56-1	TWA	200 ppm	USA. ACGIH Threshold Limit Values (TLV)		
		(see BEI® se	for which there is a	a Biological Exposure Index or Indices		
		STEL	250 ppm	USA. ACGIH Threshold Limit Values		
		OILL	200 ρριτί			
				(TLV)		
		Headache Nausea		(ILV)		
		Nausea Dizziness	<u> </u>	(ILV)		
		Nausea Dizziness Eye damage				
		Nausea Dizziness Eye damage Substances	for which there is a	a Biological Exposure Index or Indices		
		Nausea Dizziness Eye damage Substances (see BEI® se	for which there is a ection)	a Biological Exposure Index or Indices		
		Nausea Dizziness Eye damage Substances (see BEI® se Danger of cu	for which there is a ection) utaneous absorptio	a Biological Exposure Index or Indices		
		Nausea Dizziness Eye damage Substances (see BEI® se	for which there is a ection)	a Biological Exposure Index or Indices		
		Nausea Dizziness Eye damage Substances (see BEI® se Danger of cu	for which there is a ection) utaneous absorptio 200 ppm 260 mg/m3	a Biological Exposure Index or Indices  n  USA. NIOSH Recommended Exposure Limits		
		Nausea Dizziness Eye damage Substances (see BEI® se Danger of cu	for which there is a section) utaneous absorptio 200 ppm 260 mg/m3 dermal absorption	a Biological Exposure Index or Indices  n  USA. NIOSH Recommended  Exposure Limits		
		Nausea Dizziness Eye damage Substances (see BEI® se Danger of cu TWA	for which there is a ection) utaneous absorptio 200 ppm 260 mg/m3	a Biological Exposure Index or Indices  n  USA. NIOSH Recommended Exposure Limits		

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TWA	200 ppm 260 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants	
The value	The value in mg/m3 is approximate.		
С	1,000 ppm	California permissible exposure limits for chemical contaminants (Title 8, Article 107)	
Skin	Skin		
PEL	200 ppm 260 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)	
Skin			
STEL	250 ppm 325 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)	
Skin			

Biological occupational exposure limits

Component	CAS-No.	Parameters	Value	Biological specimen	Basis
	-	Methanol	15 mg/l	Urine	ACGIH - Biological Exposure Indices (BEI)
	Remarks	End of shift (As soon as possible after exposure ceases)			

## 8.2 Exposure controls

### **Appropriate engineering controls**

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

## Personal protective equipment

## Eye/face protection

Face shield and safety glasses 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**

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.

## Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) 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).

# Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

## 9.1 Information on basic physical and chemical properties

a) Appearance Form: liquid

b) Odour
c) Odour Threshold
d) pH
e) Melting point/freezing
No data available
No data available
No data available

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point

f)	Initial boiling point and	No data available
	boiling range	

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) Vapour pressure No data availablel) Vapour density No data availablem) Relative density 1.35 g/cm3

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

# 9.2 Other safety information

No data available

# 10. STABILITY AND REACTIVITY

## 10.1 Reactivity

No data available

### 10.2 Chemical stability

Stable under recommended storage conditions. Contains the following stabiliser(s):

Ethanol (0.5 %)

# 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. - Carbon oxides, Hydrogen chloride gas 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**

No data available

## Skin corrosion/irritation

No data available

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# Serious eye damage/eye irritation

No data available

## Respiratory or skin sensitisation

No data available

### Germ cell mutagenicity

No data available

## Carcinogenicity

IARC: 2B - Group 2B: Possibly carcinogenic to humans (Chloroform)

NTP: RAHC - Reasonably anticipated to be a human carcinogen (Chloroform)

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

### **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 (Chloroform)

Stomach - Irregularities - Based on Human Evidence (Methanol)

Stomach - Irregularities - Based on Human Evidence (Ethanol)

## 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

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life.

### 13. DISPOSAL CONSIDERATIONS

## 13.1 Waste treatment methods

## 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.

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## Contaminated packaging

Dispose of as unused product.

## 14. TRANSPORT INFORMATION

DOT (US)

UN number: 1992 Class: 3 (6.1) Packing group: III

Proper shipping name: Flammable liquids, toxic, n.o.s. (Chloroform, Methanol)

Reportable Quantity (RQ): 12 lbsReportable Quantity (RQ): 10 lbs

Poison Inhalation Hazard: No

**IMDG** 

UN number: 1992 Class: 3 (6.1) Packing group: III EMS-No: F-E, S-D

Proper shipping name: FLAMMABLE LIQUID, TOXIC, N.O.S. (Chloroform, Methanol)

**IATA** 

UN number: 1992 Class: 3 (6.1) Packing group: III

Proper shipping name: Flammable liquid, toxic, n.o.s. (Chloroform, Methanol)

### 15. REGULATORY INFORMATION

**SARA 302 Components** 

CAS-No. Revision Date Chloroform 67-66-3 2008-11-03

**SARA 313 Components** 

The following components are subject to reporting levels established by SARA Title III, Section 313:

CAS-No. Revision Date
Chloroform 67-66-3 2008-11-03
Methanol 67-56-1 2007-07-01

SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard

.

Reportable Quantity D022 lbs

**Massachusetts Right To Know Components** 

 CAS-No.
 Revision Date

 Chloroform
 67-66-3
 2008-11-03

 Methanol
 67-56-1
 2007-07-01

Pennsylvania Right To Know Components

CAS-No. Revision Date Chloroform 67-66-3 2008-11-03 Methanol 67-56-1 2007-07-01

California Prop. 65 Components

, which is/are known to the State of California to cause cancer, CAS-No. Revision Date and 67-66-3 2011-09-01

Chloroform

, which is/are known to the State of California to cause birth CAS-No. Revision Date defects or other reproductive harm. For more information go to 67-56-1 2012-03-16

www.P65Warnings.ca.gov.

Methanol

Chloroform 67-66-3 2011-09-01

## **16. OTHER INFORMATION**

Full text of H-Statements referred to under sections 2 and 3.

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Acute Tox. Acute toxicity

Aquatic Acute Acute aquatic toxicity Carc. Carcinogenicity Eye irritation Eye Irrit. Flam. Liq. Flammable liquids

Highly flammable liquid and vapour. H225

Toxic if swallowed, in contact with skin or if inhaled. H301 + H311 +

H331

Harmful if swallowed. H302 Harmful in contact with skin. H312 H315 Causes skin irritation.

H319 Causes serious eye irritation.

Toxic if inhaled. H331

H336 May cause drowsiness or dizziness. H351 Suspected of causing cancer.

H361d Suspected of damaging the unborn child.

Causes damage to organs (/\$/\*\_ORGAN\_SINGLE/\$/). H370

Causes damage to organs (/\$/\*\_ORGAN\_REPEAT/\$/) through prolonged or H372

repeated exposure.

H402 Harmful to aquatic life. Reproductive toxicity Repr.

Skin Irrit. Skin irritation

STOT RE Specific target organ toxicity - repeated exposure STOT SE Specific target organ toxicity - single exposure

# **HMIS Rating**

Health hazard: 2 Chronic Health Hazard: 0 Flammability: Physical Hazard 0

## NFPA Rating

2 Health hazard: Fire Hazard: 0 Reactivity Hazard: 0

### **Further information**

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# **Preparation Information**

Sigma-Aldrich Corporation Product Safety - Americas Region 1-800-521-8956

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