# SAFETY DATA SHEET

Version 4.9 Revision Date 09/23/2016 Print Date 11/10/2018

### 1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : 8-Anilino-1-naphthalenesulfonic acid

Product Number : A1028

Brand : Sigma-Aldrich

CAS-No. : 82-76-8

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 : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : +1-703-527-3887 (CHEMTREC)

## 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

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms : ANSA

N-Phenyl peri acid

**ANS** 

Formula :  $C_{16}H_{13}NO_3S$ Molecular weight : 299.34 g/mol CAS-No. : 82-76-8

**Hazardous components** 

nazaraous components		
Component	Classification	Concentration
Acetone		
	Flam. Liq. 2; Eye Irrit. 2A; STOT SE 3; H225, H319, H336	>= 1 - < 5 %

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Methanol		
	Flam. Liq. 2; Acute Tox. 3;	>= 0.1 - < 1 %
	STOT SE 1; H225, H301 +	
	H311 + H331, H370	

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

### 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. 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.

## 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

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

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

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

### 6.4 Reference to other sections

For disposal see section 13.

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## 7. HANDLING AND STORAGE

## 7.1 Precautions for safe handling

Avoid formation of dust and aerosols. 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.

Keep in a dry place.

# 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		
			parameters			
Acetone	67-64-1	TWA	250 ppm	USA. ACGIH Threshold Limit Values		
				(TLV)		
	Remarks		ervous System impa			
			Upper Respiratory Tract irritation			
			Eye irritation			
			2015 Adoption			
				a Biological Exposure Index or Indices		
			(see BEI® section) Not classifiable as a human carcinogen			
		STEL	500 ppm	USA. ACGIH Threshold Limit Values (TLV)		
		Central Ne				
			spiratory Tract irrita	tion		
		Eye irritati				
			2015 Adoption			
			Substances for which there is a Biological Exposure Index or Indices			
			(see BEI® section)			
		TWA	Not classifiable as a human carcinogen  TWA 250 ppm USA. NIOSH Recommended			
		IVVA	590 mg/m3	Exposure Limits		
		TWA	1,000 ppm	USA. Occupational Exposure Limits		
		IVVA	2,400 mg/m3	(OSHA) - Table Z-1 Limits for Air		
			2,400 mg/m3	Contaminants		
		The value	The value in mg/m3 is approximate.			
		STEL	750 ppm	California permissible exposure		
		OTEL	1,780 mg/m3	limits for chemical contaminants		
			1,7 co mg/mo	(Title 8, Article 107)		
		С	3,000 ppm	California permissible exposure		
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	limits for chemical contaminants		
				(Title 8, Article 107)		
		PEL	500 ppm	California permissible exposure		
			1,200 mg/m3	limits for chemical contaminants		
				(Title 8, Article 107)		
Methanol	67-56-1	TWA	200.000000	USA. ACGIH Threshold Limit Values		
			ppm	(TLV)		
		Headache	<u> </u>	l		
		Nausea				
		11444004				

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(see BEI® se	for which there is	a Biological Exposure Index or Indices on USA. ACGIH Threshold Limit Values (TLV)	
(see BEI® so Danger of cu	for which there is a ection) utaneous absorption		
TWA	200.000000 ppm 260.000000 mg/m3	USA. NIOSH Recommended Exposure Limits	
Potential for	dermal absorption	1	
ST	250.000000 ppm 325.000000 mg/m3	USA. NIOSH Recommended Exposure Limits	
Potential for	dermal absorption	1	
TWA	200.000000 ppm 260.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants	
The value in mg/m3 is approximate.			
TWA	200 ppm	USA. ACGIH Threshold Limit Values (TLV)	
(see BEI® se	for which there is	a Biological Exposure Index or Indices	
STEL	250 ppm	USA. ACGIH Threshold Limit Values	
(see BEI® se	for which there is	a Biological Exposure Index or Indices	
TWA	200 ppm	USA. NIOSH Recommended	
Potential for	260 mg/m3 dermal absorption	Exposure Limits	
ST	250 ppm	USA. NIOSH Recommended	
	325 mg/m3	Exposure Limits	
	dermal absorption		
TWA	200 ppm 260 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air	
	mg/m3 is approxi	Contaminants	

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STEL	250 ppm 325 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000	
Skin nota	Skin notation		
TWA	200 ppm 260 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000	
Skin nota	Skin notation		
С	1,000 ppm	California permissible exposure limits for chemical contaminants (Title 8, Article 107)	
Skin			
PEL	200 ppm 260 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)	
Skin	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	Basis
·				specimen	
				эрссинси	
Acetone	67-64-1	Acetone	25 mg/l	Urine	ACGIH - Biological
					Exposure Indices
					'
					(BEI)
	Remarks	End of shift (As soon as possible after exposure ceases)			
Methanol	67-56-1	Methanol	15.0000	Urine	ACGIH - Biological
			mg/l		Exposure Indices
					(BEI)
		End of shift (As soon as possible after exposure ceases)			
		Methanol	15 mg/l	Urine	ACGIH - Biological
					Exposure Indices
					(BEI)
		End of shift (As soon as possible after exposure ceases)			

# 8.2 Exposure controls

## Appropriate engineering controls

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

# 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).

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## Control of environmental exposure

Do not let product enter drains.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

Form: powder a) Appearance

Colour: grey

Odour No data available b) Odour Threshold No data available c) No data available d) Hq

Melting point/freezing

Melting point/range: 215 - 217 °C (419 - 423 °F) - lit.

Initial boiling point and

boiling range

No data available

No data available g) Flash point h) Evaporation rate No data available Flammability (solid, gas) No data available i) Upper/lower

flammability or explosive limits No data available

k) Vapour pressure No data available Vapour density No data available m) Relative density No data available n) Water solubility No data available No data available Partition coefficient: n-

octanol/water

Auto-ignition temperature

No data available

Decomposition temperature

No data available

No data available r) Viscosity Explosive properties No data available No data available Oxidizing properties

#### 9.2 Other safety information

No data available

## 10. STABILITY AND REACTIVITY

#### Reactivity 10.1

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, Strong bases

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### 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides

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 (8-anilinonaphthalene-1-sulphonic acid)

Inhalation: No data available (8-anilinonaphthalene-1-sulphonic acid)

Dermal: No data available (8-anilinonaphthalene-1-sulphonic acid)

No data available (8-anilinonaphthalene-1-sulphonic acid)

## Skin corrosion/irritation

No data available (8-anilinonaphthalene-1-sulphonic acid)

### Serious eye damage/eye irritation

No data available (8-anilinonaphthalene-1-sulphonic acid)

### Respiratory or skin sensitisation

No data available (8-anilinonaphthalene-1-sulphonic acid)

## Germ cell mutagenicity

No data available (8-anilinonaphthalene-1-sulphonic acid)

### 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.

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 (8-anilinonaphthalene-1-sulphonic acid)

No data available (8-anilinonaphthalene-1-sulphonic acid)

# Specific target organ toxicity - single exposure

No data available (8-anilinonaphthalene-1-sulphonic acid)

## Specific target organ toxicity - repeated exposure

No data available

### **Aspiration hazard**

No data available (8-anilinonaphthalene-1-sulphonic acid)

## **Additional Information**

RTECS: Not available

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

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Kidney - Irregularities - Based on Human Evidence

Skin - Dermatitis - Based on Human Evidence

Kidney - Irregularities - Based on Human Evidence (Acetone)

Skin - Dermatitis - Based on Human Evidence (Acetone)

Stomach - Irregularities - Based on Human Evidence (Methanol)

Stomach - Irregularities - Based on Human Evidence (Ethanol)

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### 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 (8-anilinonaphthalene-1-sulphonic acid)

#### 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. Contact a licensed professional waste disposal service to dispose of this material.

### 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

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

CAS-No.	Revision Date
82-76-8	
67-64-1	1993-02-16
67-56-1	2007-07-01
CAS-No.	Revision Date
82-76-8	
67-64-1	1993-02-16
	82-76-8 67-64-1 67-56-1 CAS-No. 82-76-8

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 Methanol
 67-56-1
 2007-07-01

 Ethanol
 64-17-5
 2007-03-01

California Prop. 65 Components

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive 67-56-1 Revision Date 2012-03-16

harm. Methanol

### **16. OTHER INFORMATION**

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

Acute Tox. Acute toxicity
Eye Irrit. Eye irritation
Flam. Liq. Flammable liquids

H225 Highly flammable liquid and vapour.

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

H331

H319 Causes serious eye irritation.H336 May cause drowsiness or dizziness.

H370 Causes damage to organs.

STOT SE Specific target organ toxicity - single exposure

**HMIS Rating** 

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

**NFPA Rating** 

Health hazard: 2
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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