



# Safety Data Sheet

According to Regulation (EC) no. 1907/2006

Product Name

1 - PENTANE SULFONIC ACID, SODIUM SALT

## 1.0 Chemical product and company identification

### 1.1 Product Identifier

**MSDS Name:** 1-PENTANE SULFONIC ACID, SODIUM SALT  
**Substance name:** N-AMYL SULFONIC ACID, SODIUM SALT  
**CAS No:** 22767-49-3  
**PRODUCT CODE:** PN

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Use of the Substance / Mixture:** LABORATORY CHEMICALS

**Recommended restrictions on use:** At this time we do not yet have information of identified uses. They will be included in the safety data sheets when available

### 1.3 Details of the supplier of the safety data sheet

**Company Identification:**  
 SOLUMETRICS LTD,  
 UNIT 1B SILEBY ROAD INDUSTRIAL ESTATE. BARROW ON SOAR, LEIC'S. LE12 8LP.  
 For information call. +44 (0)1509 815348  
 For emergencies call. +44 (0)1509 815348

## 2.0 Hazards identification

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) no 1272/2008

SKIN CORROSION/ IRRITATION	CATEGORY 2
SERIOUS EYE DAMAGE/ EYE IRRITATION	CATEGORY 2A
SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (SINGLE EXPOSURE)	CATEGORY 3

Classification according to EU Directives 67/548/EEC or 1999/45/EC

**Symbols** Xi - Irritant  
**R - Phrases** None  
**Risk Combination Phrases** R36/37/38 - Irritating to eyes, respiratory system and skin

### HAZARDS SYMBOLS



**Signal Word:** Warning

### Hazard Statements:

H335 MAY CAUSE RESPIRATORY IRRITATION  
 H315 CAUSES SKIN IRRITATION  
 H319 CAUSES SERIOUS EYE IRRITATION

### Precautionary statements

EU (28, 1272/2008)

P305 + P351 + P338 If in EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do continue rinsing  
 P302 + P352 If on SKIN: Wash with plenty of soap and water  
 P261 Avoid breathing dust/fumes/gas/mist/vapors/spray  
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection

### Precautionary statements

**Prevention** At this time we do not yet have information of identified uses. They will be included in the safety data sheets when available

**Response** At this time we do not yet have information of identified uses. They will be included in the safety data sheets when available

**Hazardous components which must be listed on the label:** At this time we do not yet have information of identified uses. They will be included in the safety data sheets when available

### 3.0 Composition/ Information on ingredients

#### 3.1 Substances

EC No	Component	GHSCLAS	Classification
EEC No.245-208-4	1-PENTANE SULFONIC ACID, SODIUM SALT	STOT SE3 (H335) Skin Irrit. 2 (H315) Eye Irrit.2 (H319)	Xi; R36/37/38

Weight %	CAS No
100	22767-49-3

**Chemical Nature:**  
1-PENTANE SULFONIC ACID, SODIUM SALT CAS 22767-49-3

### 4.0 First Aid measures

#### 4.1 Description of first aid measures

##### General Advice

**If Inhaled:** Remove person to fresh air immediately. If not breathing give artificial respiration. If breathing is difficult give oxygen. Get medical attention.

**In Case of Skin contact:** Get medical attention as soon as possible. Flush the skin with copious amounts of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention if irritation develops and persists. Wash clothing before reuse.

**In case of eye contact:** Immediately flush with copious amounts of water for at least 15 minutes occasionally lifting the upper and lower eyelids. Get medical attention as soon as possible.

**If Swallowed:** If swallowed DO NOT induce vomiting unless directed to do so by medical personnel. DO NOT give anything by mouth to an unconscious person. Get medical assistance.

### 5.0 FIRE FIGHTING MEASURES

#### 5.1 Extinguishing media

**Suitable extinguishing Media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

**Un-Suitable extinguishing Media:** No information Available

#### 5.2 Special hazards arising from the substance or mixture

**Specific hazards during fire fighting:** Thermal decomposition can lead to release of irritating gases and vapors

#### 5.3 Advice for fire-fighters

**Special protective equipment for fire-fighters:** Wear a self-contained breathing apparatus in pressure demand, MSHA/NIOS (approved or equivalent) full protective clothing and equipment.

**Further Information:** Wear a self-contained breathing apparatus in pressure demand, MSHA/NIOSH (approved or equivalent), and full protective equipment. During a fire irritating and highly toxic gasses may be generated by thermal decomposition or combustion. Dust from this product can form explosive organic dust cloud.

### 6.0 Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

**Personal Precautions:** Ensure adequate ventilation Use personal protective equipment Avoid dust formation

**6.2 Environmental precautions:**

Contain and absorb using earth, sand or other inert material. Transfer into suitable containers for recovery or disposal. Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration. If the product contaminates rivers and lakes or drains inform respective authorities. If material reaches soil inform authorities responsible for such cases

**6.3 Methods and materials for containment and cleaning up:**

Sweep or vacuum up material and place in a suitable container for disposal. Clean up spills immediately observing the precautions in the Protective equipment section. Provide adequate ventilation and avoid generating dusty conditions.

**Further Information:**

Advise Authorities if spillage has entered water course or sewer or has contaminated soil or vegetation.

**7.0 Handling and storage**

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimise dust generation and accumulation. Avoid contact with eyes, skin and clothing. Keep container(s) tightly closed. Avoid ingestion and inhalation.

**7.1 Precautions for safe handling****Advice on safe handling:**

Wear personal Protective equipment ensure adequate ventilation do not get in eyes, on skin, or on clothing Avoid ingestion and inhalation avoid dust formation

**Hygiene measures:**

Keep away from food, drink and animal feeding stuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of workday. Take off all contaminated clothing immediately. Avoid contact with the skin and the eyes. Do not breathe vapours or spray mist. Use adequate ventilation to keep airborne concentrations low.

**7.2 Conditions for safe storage, including any incompatibilities****Requirements for storage area containers:**

Store in tightly closed containers in cool dry well ventilated area away from incompatible substances

**Advice on Protection Against fire and explosion:**

The product is not flammable. Normal measures for preventive fire protection.

**Further information on storage conditions:**

Keep tightly closed in a dry and cool place. Keep in well ventilated place.

**Advice on common storage:**

Keep away from food, drink and animal feeding stuffs.

**8.0 Exposure controls/ personal protection****8.1 Control parameters****1-PENTANE SULFONIC ACID, SODIUM SALT**

This product, as supplied does not contain and hazardous material with occupational exposure limits established by the region specific regulatory bodies.

CAS 22767-49-3

**Regulatory Basis**  
**Regulatory List**  
**Value Type**  
**Value**

UK. EH40 Workplace Exposure Limits (WELs)  
EH40 WEL

**8.2 Exposure controls****Engineering measures**

Ensure that eyewash stations and safety showers are close to the workstation location ensure adequate ventilation, especially in confined areas.

**Refer to protective measures listed in sections 7 and 8****Personal protective equipment****Respiratory protection****Advice:**

Follow OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standards EN149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced

**Hand Protection****Advice:**

Wear suitable protective clothing, gloves check for compatibility with the manufacturers' guidelines to prevent skin exposure  
Wear appropriate protective clothing to prevent skin exposure.

**Eye Protection****Advice:**

Tightly fitting safety goggles  
Wear appropriate protective eyeglasses or chemical safety goggles or full face protection. (European standard EN166).

**Skin and Body Protection****Advice:**

The selection of personal protective equipment and procedures for use should be based on the work place risk assessment and local legislation. Respiratory protective equipment and gloves etc should be changed at regular intervals as specified in the work place risk assessment and in accordance with the manufacturer's information.

**Environmental exposure controls****General advice**

Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration If the product contaminates rivers and lakes or drains inform respective authorities. If material reaches soil inform authorities for such cases

**9.0 Physical and chemical properties****9.1 Information on basic physical and chemical properties**

<b>Form</b>	POWDER, SOLID
<b>Colour</b>	White
<b>Odour</b>	No Odour
<b>Odour Threshold</b>	
<b>PH</b>	No Data Available
<b>Freezing Point</b>	>300 deg C (>572 deg F)
<b>Boiling Point</b>	No Data Available
<b>Flash Point</b>	No Data Available
<b>Density</b>	No Data Available
<b>Molecular Formula</b>	C5 H11 O3 S Na
<b>Molecular Weight</b>	174.2
<b>Water solubility</b>	Freely Soluble
<b>Ignition Temperature</b>	No Data Available
<b>Oxidizing Properties</b>	No Data Available

**10.0 Stability and reactivity**

<b>10.1 Reactivity</b>	No Data Available
<b>10.2 Chemical stability</b>	This Product is Stable under normal conditions (temperature and pressure)
<b>10.3 Possibility of hazardous reactions</b>	
<b>Hazardous reaction:</b>	No Data Available
<b>10.4 Conditions to avoid</b>	Contact with incompatible materials, Dust generation, Excessive heat.
<b>10.5 Incompatible materials</b>	
<b>Materials to avoid:</b>	Materials to avoid Strong Oxidising agents
<b>10.6 Hazardous decomposition products</b>	Carbon Monoxide Carbon Dioxide Sodium Oxide Sulfur Oxides

**11.0 Toxicological Information****11.1 Information on toxicological effects**

PENTANE SULFONIC ACID SODIUM SALT CAS 22767-49-3

**Inhalation****Remarks**

Inhalation may cause pain in respiratory system, sneezing coughing and difficulty in breathing.

**Irritation****Skin**

In case of contact with skin, rinse immediately with plenty of water.

<u>Eyes</u>	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
<u>Sensitisation</u>	No Information available
<u>Further Information</u>	Not listed as a carcinogen by ACGIH, IARC, NTP or CA prop 65

12.0 Ecological Information

12.1 Toxicity

<u>PENTANE SULFONIC ACID SODIUM SALT CAS 22767-49-3</u>	
<u>Acute toxicity</u>	
<u>Fish</u>	
Species	No Ecological data available for this material. They will be included in the safety data sheets when available
Exposure Time	
Value Type	
Value	
Species	No Ecological data available for this material. They will be included in the safety data sheets when available
Exposure Time	
Value Type	
Value	
<u>Toxicity to daphnia and other aquatic invertebrates</u>	
Species	No Ecological data available for this material. They will be included in the safety data sheets when available
Exposure Time	
Value Type	
Value	
<u>Bacteria</u>	
Species	No Ecological data available for this material. They will be included in the safety data sheets when available
Exposure Time	
Value Type	
Value	

12.2 Persistence and degradability

<u>PENTANE SULFONIC ACID SODIUM SALT CAS 22767-49-3</u>	
<u>Persistence and degradability</u>	
<u>Biodegradability</u>	
Remarks	No Ecological data available for this material. They will be included in the safety data sheets when available

12.3 Bioaccumulative potential

<u>PENTANE SULFONIC ACID SODIUM SALT CAS 22767-49-3</u>	
<u>Bioaccumulation</u>	
Remarks	No Ecological data available for this material. They will be included in the safety data sheets when available

12.4 Mobility in soil

12.5 Results of PBT and vPvB assessment

12.6 Other adverse effects

<u>PENTANE SULFONIC ACID SODIUM SALT CAS 22767-49-3</u>	
<u>Additional ecological information</u>	
Remarks	

13.0 Disposal considerations

**13.1 Waste treatment methods**

<b>Product</b>	Disposal together with normal waste is not allowed. Special disposal required to local regulations. Do not let product enter drains. Contact waste disposal services.
<b>Contaminated Packaging</b>	Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning. Packagings that cannot be cleaned are to be disposed of in the same manner as the product.
<b>European Waste Catalogue Number</b>	No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer.

**14.0 Transport information**

<b>14.1 UN number</b>	Not Regulated
<b>14.2 UN proper shipping name</b>	
<b>ADR</b>	Not Regulated
<b>RID</b>	Not Regulated
<b>IMDG</b>	Not Regulated
<b>14.3 Transport hazard class(es)</b>	
<b>ADR-Class (labels; Classification Code; Hazard Identification No; Tunnel restriction code)</b>	Not Regulated
<b>RID-Class (labels; Classification Code; Hazard Identification No; Tunnel restriction code)</b>	Not Regulated
<b>IMDG-Class (Labels; EmS)</b>	Not Regulated
<b>14.4 Packing group</b>	
<b>ADR</b>	Not Regulated
<b>RID</b>	Not Regulated
<b>IMDG</b>	Not Regulated
<b>14.5 Environmental Hazards</b>	
<b>Labelling according to 5.2.1.8 ADR</b>	Not Regulated
<b>Labelling according to 5.2.1.8 RID</b>	Not Regulated
<b>Labelling according to 5.2.6.3 IMDG</b>	Not Regulated
<b>Classification as environmentally hazardous</b>	Not Regulated
<b>According to 2.9.3 IMDG</b>	Not Regulated
<b>Classified as 'P' according to 2.10 IMDG</b>	Not Regulated
<b>14.6 Special precautions for user</b>	
<b>14.7 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	
<b>IMDG</b>	Not Regulated

**15.0 Regulatory Information**

<b>Component</b>	
<b>PENTANE SULFONIC ACID SODIUM SALT CAS 22767-49-3</b>	
<b>EINECS</b>	245-208-4
<b>ELINCS</b>	-
<b>NLP</b>	-
<b>TSCA</b>	X
<b>DSL</b>	X
<b>NDSL</b>	-
<b>PICCS</b>	X
<b>ENCS</b>	X
<b>CHINA</b>	X
<b>AICS</b>	X
<b>KECL</b>	-

**Ledgend**

<b>TSCA</b>	United States Toxic Substance Control Act Section 8 (b) Inventory
<b>EINECS/ELINCS</b>	European Inventory Lists
<b>DSL/NDSL</b>	Canadian Domestic Substances List/Non-Domestic Substances List
<b>ENCS</b>	Japan Existing and New Chemical Substances
<b>CHINA</b>	China Inventory of existing Chemical Substances
<b>AIC</b>	Inventory of Chemical Substances
<b>KECL</b>	Existing and Evaluated Chemical Substances
<b>PICCS</b>	Philippines Inventory of Chemicals and Chemical Substances

**16.0 Other information****Full text of R-Phrases referred to under section 2 and 3**

R36	Irritating to eyes.
R37	Irritating to respiratory system.
R38	Irritating to skin.

**Full text of H-Statements referred to under section 2 and 3**

H335	MAY CAUSE RESPIRATORY IRRITATION
H315	CAUSES SKIN IRRITATION
H319	CAUSES SERIOUSE EYE IRRATATION

**Stafety Phrases**

S26	In case of contact with eyes, Rinse immediatley with plenty of water and seek medical help
S37	Wear suitable gloves.
S39	Wear eye / face protection.

<b>Remarks</b>	WGK (WATER DANGER/ PROTECTION) <u>PENTANE SULFONIC ACID SODIUM SALT CAS 22767-49-3</u>
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**Other information**

This information is based upon Solumetrics Ltd Knowledge of this product at the time this Safety Data Sheet was prepared. It is given in good faith and no warranty is implied. The information is belived to be correct but does not purport to be all inclusive and shall be used only as a guide. The user must satisfy him/her self as to the purpose this product is put to and the possible change in classification should this product be mixed or formulated with other compounds