

# SAFETY DATA SHEET

**1. Identification**

**Product identifier:** 1-HEXANESULFONIC ACID SODIUM SALT

**Other means of identification**

**Product No.:** 2175

**Recommended use and restriction on use**

**Recommended use:** Not determined.

**Restrictions on use:** Not determined.

**Details of the supplier of the safety data sheet**

|                 |                                     |
|-----------------|-------------------------------------|
|                 | Avantor Performance Materials, LLC. |
|                 | 3477 Corporate Parkway              |
|                 | Center Valley, PA 18034             |
| Telephone:      |                                     |
|                 | Customer Service: 855-282-6867      |
| Fax:            | 610-573-2610                        |
| Contact Person: | Environmental Health & Safety       |
| E-mail:         | info@avantormaterials.com           |

**Emergency telephone number:**

CHEMTREC: 1-800-424-9300 within US and Canada

**2. Hazard(s) identification**

**Hazard Classification**

**Health Hazards**

|   |                         |
|---|-------------------------|
| Skin Corrosion/Irritation                           | Category 2              |
| Serious Eye Damage/Eye Irritation                   | Category 2A             |
| Specific Target Organ Toxicity -<br>Single Exposure | Category 3 <sup>1</sup> |

**Target Organs**

1. Respiratory tract irritation.

**Unknown toxicity - Health**

|   |       |
|---|-------|
| Acute toxicity, oral                        | 100 % |
| Acute toxicity, dermal                      | 100 % |
| Acute toxicity, inhalation, vapor           | 100 % |
| Acute toxicity, inhalation, dust<br>or mist | 100 % |

**Unknown toxicity - Environment**

|   |       |
|---|-------|
| Acute hazards to the aquatic<br>environment | 100 % |
|---|-------|

Chronic hazards to the aquatic environment 100 %

**Label Elements**

**Hazard Symbol:**



**Signal Word:** Warning

**Hazard Statement:** Causes skin irritation.  
Causes serious eye irritation.  
May cause respiratory irritation.  
May form combustible dust concentrations in air.

**Precautionary Statements**

**Prevention:** Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing dust. Use only outdoors or in a well-ventilated area. Prevent dust accumulation to minimize explosion hazard.

**Response:** Specific treatment (see on this label). IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

**Storage:** Store in a well-ventilated place. Keep container tightly closed. Store locked up.

**Disposal:** Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

**Other hazards which do not result in GHS classification:** None.

**3. Composition/information on ingredients**

**Substances**

| Chemical name            | Common name and synonyms | CAS number | Content in percent (%)* |
|--------------------------|--------------------------|------------|-------------------------|
| SODIUM 1-HEXANESULFONATE |                          | 2832-45-3  | 98 - 100%               |

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

**4. First-aid measures**

**General information:** Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance.

**Ingestion:** Rinse mouth thoroughly. Call a POISON CENTER/doctor if you feel unwell.

**Inhalation:** Move to fresh air. Get medical attention if symptoms persist.

**Skin Contact:** Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing. Wash contaminated clothing before reuse.

**Eye contact:** Flush thoroughly with water. If irritation occurs, get medical assistance.

**Most important symptoms/effects, acute and delayed**

**Symptoms:** Irritating to eyes, respiratory system and skin.

**Hazards:** None known.

**Indication of immediate medical attention and special treatment needed**

**Treatment:** Treat symptomatically. Symptoms may be delayed.

**5. Fire-fighting measures**

**General Fire Hazards:** In case of fire and/or explosion do not breathe fumes.

**Suitable (and unsuitable) extinguishing media**

**Suitable extinguishing media:** Water. Carbon dioxide Dry chemical.

**Unsuitable extinguishing media:** None known.

**Specific hazards arising from the chemical:** During fire, gases hazardous to health may be formed.

**Special protective equipment and precautions for firefighters**

**Special fire fighting procedures:** Move containers from fire area if you can do so without risk. Use water spray to keep fire-exposed containers cool. Cool containers exposed to flames with water until well after the fire is out.

**Special protective equipment for fire-fighters:** Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

**6. Accidental release measures**

**Personal precautions, protective equipment and emergency procedures:** ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep unauthorized personnel away. Keep upwind. Use personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. See Section 8 of the SDS for Personal Protective Equipment.

|  |  |
|--|--|
| <b>Methods and material for containment and cleaning up:</b> | Avoid dust formation. Sweep up and place in a clearly labeled container for chemical waste. Clean surface thoroughly to remove residual contamination. |
| <b>Notification Procedures:</b>                              | Prevent entry into waterways, sewer, basements or confined areas. Inform authorities if large amounts are involved.                                    |
| <b>Environmental Precautions:</b>                            | Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.                                   |

## 7. Handling and storage

|  |   |
|--|---|
| <b>Precautions for safe handling:</b>                                | DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Use personal protective equipment as required. Avoid contact with eyes, skin, and clothing. Avoid inhalation of dust. Wash thoroughly after handling. |
| <b>Conditions for safe storage, including any incompatibilities:</b> | Keep containers tightly closed. Store in cool, dry place. Store in a well-ventilated place.   |

## 8. Exposure controls/personal protection

### Control Parameters

#### Occupational Exposure Limits

None of the components have assigned exposure limits.

|   |                    |
|---|--------------------|
| <b>Appropriate Engineering Controls</b> | No data available. |
|---|--------------------|

### Individual protection measures, such as personal protective equipment

|                                |   |
|--------------------------------|---|
| <b>General information:</b>    | Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. An eye wash and safety shower must be available in the immediate work area. |
| <b>Eye/face protection:</b>    | Use tight fitting goggles if dust is generated.   |
| <b>Skin Protection</b>         |   |
| <b>Hand Protection:</b>        | Chemical resistant gloves   |
| <b>Other:</b>                  | Wear suitable protective clothing.  |
| <b>Respiratory Protection:</b> | In case of inadequate ventilation use suitable respirator.  |
| <b>Hygiene measures:</b>       | Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Provide eyewash station and safety shower.  |

## 9. Physical and chemical properties

### Appearance

|                        |          |
|------------------------|----------|
| <b>Physical state:</b> | Solid    |
| <b>Form:</b>           | Crystals |

|  |                              |
|--|------------------------------|
| <b>Color:</b>  | White                        |
| <b>Odor:</b>   | No data available.           |
| <b>Odor threshold:</b>                                       | No data available.           |
| <b>pH:</b>   | No data available.           |
| <b>Melting point/freezing point:</b>                         | No data available.           |
| <b>Initial boiling point and boiling range:</b>              | No data available.           |
| <b>Flash Point:</b>  | No data available.           |
| <b>Evaporation rate:</b>                                     | No data available.           |
| <b>Flammability (solid, gas):</b>                            | No data available.           |
| <b>Upper/lower limit on flammability or explosive limits</b> |                              |
| <b>Flammability limit - upper (%):</b>                       | No data available.           |
| <b>Flammability limit - lower (%):</b>                       | No data available.           |
| <b>Explosive limit - upper (%):</b>                          | No data available.           |
| <b>Explosive limit - lower (%):</b>                          | No data available.           |
| <b>Vapor pressure:</b>                                       | Estimated < 0,01 kPa (25 °C) |
| <b>Vapor density:</b>  | No data available.           |
| <b>Density:</b>  | No data available.           |
| <b>Relative density:</b>                                     | No data available.           |
| <b>Solubility(ies)</b>                                       |                              |
| <b>Solubility in water:</b>                                  | Soluble                      |
| <b>Solubility (other):</b>                                   | No data available.           |
| <b>Partition coefficient (n-octanol/water):</b>              | No data available.           |
| <b>Auto-ignition temperature:</b>                            | No data available.           |
| <b>Decomposition temperature:</b>                            | No data available.           |
| <b>Viscosity:</b>  | No data available.           |
| <b>Other information</b>                                     |                              |
| <b>Molecular weight:</b>                                     | 188,22 g/mol (C6H14O3S.Na)   |

## 10. Stability and reactivity

|  |  |
|--|--|
| <b>Reactivity:</b>                         | No dangerous reaction known under conditions of normal use.                  |
| <b>Chemical Stability:</b>                 | Material is stable under normal conditions.                                  |
| <b>Possibility of hazardous reactions:</b> | Hazardous polymerization does not occur.                                     |
| <b>Conditions to avoid:</b>                | Contact with incompatible materials. Heat, sparks, flames.                   |
| <b>Incompatible Materials:</b>             | Strong oxidizing agents.   |
| <b>Hazardous Decomposition Products:</b>   | Thermal decomposition may produce oxides of carbon and sulfur. Sodium oxides |

## 11. Toxicological information

### Information on likely routes of exposure

|                      |   |
|----------------------|---|
| <b>Inhalation:</b>   | May cause irritation to the respiratory system. |
| <b>Skin Contact:</b> | Causes skin irritation.                         |
| <b>Eye contact:</b>  | Causes serious eye irritation.                  |

**Ingestion:** May cause irritation of the gastrointestinal tract.

**Information on toxicological effects**

**Acute toxicity (list all possible routes of exposure)**

**Oral**

**Product:** No data available.

**Dermal**

**Product:** No data available.

**Inhalation**

**Product:** No data available.

**Repeated dose toxicity**

**Product:** No data available.

**Skin Corrosion/Irritation**

**Product:** Causes skin irritation.

**Serious Eye Damage/Eye Irritation**

**Product:** Causes serious eye irritation.

**Respiratory or Skin Sensitization**

**Product:** Not a skin sensitizer.

**Carcinogenicity**

**Product:** This substance has no evidence of carcinogenic properties.

**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:**

No carcinogenic components identified

**US. National Toxicology Program (NTP) Report on Carcinogens:**

No carcinogenic components identified

**ACGIH Carcinogen List:**

No carcinogenic components identified

**Germ Cell Mutagenicity**

**In vitro**

**Product:** No mutagenic components identified

**In vivo**

**Product:** No mutagenic components identified

**Reproductive toxicity**

**Product:** No components toxic to reproduction

**Specific Target Organ Toxicity - Single Exposure**

**Product:** Respiratory tract irritation.

**Specific Target Organ Toxicity - Repeated Exposure**

**Product:** No data available.

**Aspiration Hazard**

**Product:** Not classified  
**Other effects:** None known.

## 12. Ecological information

### Ecotoxicity:

#### Acute hazards to the aquatic environment:

##### Fish

**Product:** No data available.

##### Aquatic Invertebrates

**Product:** No data available.

#### Chronic hazards to the aquatic environment:

##### Fish

**Product:** No data available.

##### Aquatic Invertebrates

**Product:** No data available.

##### Toxicity to Aquatic Plants

**Product:** No data available.

### Persistence and Degradability

#### Biodegradation

**Product:** There are no data on the degradability of this product.

#### BOD/COD Ratio

**Product:** No data available.

### Bioaccumulative potential

#### Bioconcentration Factor (BCF)

**Product:** No data available on bioaccumulation.

### Partition Coefficient n-octanol / water (log Kow)

**Product:** No data available.

**Mobility in soil:** No data available.

#### Known or predicted distribution to environmental compartments

SODIUM 1-  
HEXANESULFONATE No data available.

**Other adverse effects:** The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

## 13. Disposal considerations

**Disposal instructions:** Discharge, treatment, or disposal may be subject to national, state, or local laws.

**Contaminated Packaging:** Since emptied containers retain product residue, follow label warnings even after container is emptied.

**14. Transport information**

**TDG**  
Not regulated.

**IMDG**  
Not regulated.

**IATA**  
Not regulated.

**Transport in bulk according to Annex II of MARPOL and the IBC Code:** Not applicable

**15. Regulatory information**

- Canada Federal Regulations**
- List of Toxic Substances (CEPA, Schedule 1)
  - Export Control List (CEPA 1999, Schedule 3)
  - National Pollutant Release Inventory (NPRI)
  - Greenhouse Gases
  - Controlled Drugs and Substances Act
  - Precursor Control Regulations

**International regulations**

- Montreal protocol**  
Not applicable
- Stockholm convention**  
Not applicable
- Rotterdam convention**  
Not applicable
- Kyoto protocol**  
Not applicable



**Inventory Status:**

|  |  |
|--|--|
| Australia AICS:                          | On or in compliance with the inventory |
| Canada DSL Inventory List:               | On or in compliance with the inventory |
| EINECS, ELINCS or NLP:                   | On or in compliance with the inventory |
| Japan (ENCS) List:                       | On or in compliance with the inventory |
| China Inv. Existing Chemical Substances: | Not in compliance with the inventory.  |
| Korea Existing Chemicals Inv. (KECI):    | On or in compliance with the inventory |
| Canada NDSL Inventory:                   | Not in compliance with the inventory.  |
| Philippines PICCS:                       | Not in compliance with the inventory.  |
| US TSCA Inventory:                       | On or in compliance with the inventory |
| New Zealand Inventory of Chemicals:      | On or in compliance with the inventory |
| Japan ISHL Listing:                      | Not in compliance with the inventory.  |
| Japan Pharmacopoeia Listing:             | Not in compliance with the inventory.  |

|  |
|--|
| <b>16. Other information, including date of preparation or last revision</b> |
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**Revision Date:** 17.05.2018

**Version #:** 1.1

**Further Information:** No data available.

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