

# SAFETY DATA SHEET



1000 Tedia Way  
Fairfield, Ohio 45014  
USA  
Email: [tedia@tedia.com](mailto:tedia@tedia.com)  
Web: [www.tedia.com](http://www.tedia.com)

## 24-Hour Emergency Number (CHEMTREC)

USA: 800-424-9300  
International: 703-527-3887

All non-emergency numbers should be directed  
to Customer Service at 800-PURITY1

## 1-PENTANESULFONIC ACID, SODIUM SALT

SDS No. M0342

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: 1-Pentanesulfonic Acid, Sodium Salt or 1-Pentanesulfonic Acid, Sodium Salt, Monohydrate

Synonyms: Sodium 1-Pentanesulfonate; Sodium Pentylsulfonate; Sodium 1-Pentanesulfonate Monohydrate; Sodium Pentylsulfonate Monohydrate

Recommended Use: This product is recommended for laboratory and manufacturing use only. It is not recommended for drug, food, or household use.

### 2. HAZARDS IDENTIFICATION



Not classified as hazardous.

#### **Label Elements**

Signal Word: Warning

#### Hazard Statements:

- H315 – Causes skin irritation.
- H319 – Causes serious eye irritation.
- H332 – Harmful if inhaled.
- H335 – May cause respiratory irritation.

#### Precautionary Statements:

- P261 – Avoid breathing dust/fume/gas/mist/vapors/spray.
- P280 – Wear protective gloves/clothing/eye protection/face protection.
- P302+P352 – IF ON SKIN: wash with plenty of water.
- P304+P340 – IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P501 – Dispose of contents/ container to an approved waste disposal plant.

#### **Emergency Overview**

May be harmful if swallowed, inhaled, or absorbed through the skin. May cause irritation to eyes, skin, digestive tract, and respiratory tract.

#### HMIS Rating:

Clear focus. Consistent results. Complete confidence.

Health – 0 Flammability – 1 Physical Hazard – 0 PPE – User supplied

NOTE: HMIS ratings use a numbering scale that ranges from 0 - 4 to indicate the degree of hazard. A value of zero means the chemical presents no hazard while a value of four indicates a high hazard. These ratings are based on the inherent properties of this chemical under expected conditions of normal use and are not intended to be used in emergency situations. PPE is determined by the user based on their needs and conditions.

### 3. COMPOSITION AND INFORMATION ON INGREDIENTS

<u>Ingredient</u>	<u>CAS No</u>	<u>Percent</u>	<u>Hazardous</u>
1-Pentanesulfonic Acid, Sodium Salt	22767-49-3	>99%	Yes

### 4. FIRST-AID MEASURES

Inhalation: If inhaled, remove to fresh air. If not breathing, begin artificial respiration. Get medical aid if victim has difficulty breathing.

Ingestion: Induce vomiting as directed by medical personnel. Never give anything by mouth to an unconscious person. If vomiting occurs naturally, have person lean forward. Get medical aid.

Skin Contact: Wash exposed area with soap and water. Get medical attention if irritation develops and persists.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention.

Notes to Physician: Treat symptomatically and supportively.

### 5. FIRE FIGHTING MEASURES

Flammability: As with most organic solids, fire is possible at elevated temperatures or by contact with an ignition source.

Auto-ignition Temperature: Not available.

Flash Point: Not available.

Flammable Limits: Not available.

Products of Combustion: Will decompose into toxic and irritating gases (carbon monoxide, carbon dioxide, and sulfur oxides) under fire conditions.

Specific Fire Hazards: As in any fire, always wear self-contained breathing apparatus in pressure-demand (MSA/NIOSH approved or equivalent), and full protective gear. Approach fire from upwind to avoid hazardous vapors and toxic decomposition products.

Specific Explosion Hazards: Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

Fire Fighting Media: Use water, dry chemical, carbon dioxide, or alcohol resistant foam.

National Fire Protective Association: Health - 0, Flammability - 1, Reactivity - 0

NOTE: NFPA ratings use a numbering scale that ranges from 0 - 4 to indicate the degree of hazard. A value of zero means the chemical presents no hazard while a value of four indicates a high hazard. They are for use by emergency personnel to address the hazards that are presented by short term, acute exposure to this product under fire, spill, or similar emergencies. Ratings involve data and interpretations that may vary from company to company.

### 6. ACCIDENTAL RELEASE MEASURES

Ventilate area and remove all ignition sources. Clean up spills in a manner that does not disperse dust into the air. Use non-sparking tools and equipment. Reduce airborne dust and prevent scattering by moistening with water. Sweep up spilled material and place in a suitable container. Always use proper personal protective equipment as described in section 8.

### 7. HANDLING AND STORAGE

Precautions: Employ grounding, venting and explosion relief provisions in accord with accepted engineering practices in any process capable of generating dust and/or static electricity. Empty only into inert or non-flammable atmosphere. Emptying contents into a non-inert atmosphere where flammable vapors may be present could cause a flash fire or explosion due to

electrostatic discharge. Always use proper personal protective equipment as described in section 8. Wash thoroughly after handling. Avoid contact with eyes, skin, and clothing. Avoid inhalation and ingestion.

Storage: Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Avoid dust formation and control ignition sources.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.

Personal Protection: For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particulate respirator (NIOSH type N95 or better filters) may be worn. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres. Wear protective chemical goggles or appropriate eye protection. Wear protective gloves and clean body-covering clothing.

Exposure Limits: No information available.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State and Appearance: White crystals or crystalline powder.

Odor: None reported

Molecular Formula:  $\text{CH}_3(\text{CH}_2)_4\text{SO}_3\text{Na}$

Molecular Weight: 174.2 (192.2 for monohydrate)

Auto-ignition Temperature: Not available.

Flash Point: Not available.

Flammable Limits: Not available.

pH: Not available.

Boiling Point: Not available.

Freezing/Melting Point: 300° C (572° F)

Decomposition Temperature: Not available

Specific Gravity: Not available.

Vapor Density (Air=1): Not available.

Vapor Pressure: Not available.

Viscosity: Not available.

Solubility: Moderately soluble in water (1-10%)

## 10. STABILITY AND REACTIVITY

Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: No information available.

Incompatibility with Various Substances: Strong oxidizing agents.

Hazardous Decomposition Products: Carbon monoxide, carbon, dioxide, and sulfur oxides.

Hazardous Polymerization: Will not occur.

## 11. TOXICOLOGICAL INFORMATION

Routes of Entry: Inhalation, ingestion, skin contact

Acute Exposure Hazards:

INHALATION HAZARD: May cause irritation of the respiratory tract. The toxicological properties of this material have not been fully investigated.

INGESTION HAZARD: May cause irritation of the digestive tract. The toxicological properties of this material have not been fully investigated.

SKIN CONTACT HAZARD: May cause skin irritation. May be absorbed through the skin.

EYE CONTACT HAZARD: May cause eye irritation.

Chronic Exposure Hazards: No information available.

Animal Toxicity: No information available.

Carcinogenicity: Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65

Epidemiology: No information available.

Teratogenicity: No information available.

Mutagenicity: No information available.

Neurotoxicity: No information available.

## 12. ECOLOGICAL INFORMATION

Ecotoxicity: No information available.

Environmental Fate: No information available.

Physical: No information available.

## 13. DISPOSAL CONSIDERATIONS

Material that cannot be saved for recovery or recycling should be managed in an appropriate and approved waste facility. Processing, use, or contamination of this product may change the waste management options. Waste generators must decide if discarded material is a hazardous waste. State and local disposal regulations may differ from federal disposal definitions found in 40 CFR 261.3. Dispose of container and unused contents in accordance with federal, state and local requirements.

## 14. TRANSPORT INFORMATION

Not regulated for transportation.

## 15. REGULATORY INFORMATION

### US Federal Regulations:

CERCLA Hazardous Substances: CAS# 22767-49-3: Not listed.

SARA Section 302: Does not have a TPQ

SARA Codes: CAS# 22767-49-3 – acute

Section 313: Pentanesulfonic acid (CAS# 22767-49-3) is not subject to SARA Title III Section 313 and 40 CFR 373 reporting requirements.

OSHA: Not considered highly hazardous by OSHA.

### US State Regulations:

CAS# 22767-49-3 is listed on state right-to-know lists for New Jersey and Pennsylvania

California Prop 65: This product contains no chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

## 16. OTHER INFORMATION

Originally Prepared: 10/24/2006

Last Revised: 05/11/2021 – Updated Section 2.

The information contained herein is based on current knowledge and experience; no responsibility is accepted that the information is sufficient or correct in all cases. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers and the protection of the environment.

TEDIA COMPANY, INC. MAKES NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE INFORMATION SET FORTH HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS. ACCORDINGLY, TEDIA COMPANY, INC. WILL NOT BE RESPONSIBLE FOR DAMAGES RESULTING FROM USE OF OR RELIANCE UPON THIS INFORMATION.