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## MATERIAL SAFETY DATA SHEET (MSDS)

### SPADNS (COMPLEXOMETRIC INDICATOR)

#### 1. Product Identification

**Synonyms:** Trisodium (4,5-Dihydroxy-3-[(p-sulphophenyl)-2,7-]naphthalenedisulfoni c Acid  
**CAS No.:** 23647-14-5

Product Coad: S0194100025

**Molecular Weight:** 570.42  
**Chemical Formula:** (HO)2C10H3(SO3Na)2N:NC6H4SO3Na

#### 2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
SPADNS	23647-14-5	90 - 100%	Yes

#### 3. Hazards Identification

##### Emergency Overview

**CAUTION! MAY CAUSE IRRITATION.**

**Inhalation:** None identified.

**Ingestion:** None identified.

**Skin Contact:** None identified.

**Eye Contact:** None identified.

**Chronic Exposure:** No information found.

**Aggravation of Pre-existing Conditions:** No information found.

#### 4. First Aid Measures

**Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Prompt action is essential.  
**Ingestion:** Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.

**Skin Contact:** In case of contact, flush skin with water.

**Eye Contact:** In case of eye contact, immediately flush with plenty of water for at least 15 minutes.

#### 5. Fire Fighting Measures

**Fire:** Not expected to be a fire hazard.

**Explosion:** None identified.

**Fire Extinguishing Media:** Use extinguishing media appropriate for surrounding fire.

**Special Information:** Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece operated in positive pressure mode.

#### 6. Accidental Release Measures

Wear self-contained breathing apparatus and full protective clothing. With clean shovel, carefully place material into clean, dry container and cover; remove from area. Flush spill area with water.

#### 7. Handling and Storage

Keep container tightly closed. Suitable for any general chemical storage area. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

#### 8. Exposure Controls/Personal Protection

**Airborne Exposure Limits:** None established. **Ventilation System:** 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. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details. **Personal Respirators (NIOSH Approved):** For conditions of use where exposure to the substance is apparent and engineering controls are not feasible, consult an industrial hygienist. For emergencies, or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator. **WARNING:** Air purifying respirators do not protect workers in oxygen-deficient atmospheres. **Skin Protection:** Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. **Eye Protection:** Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

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**MATERIAL SAFETY DATA SHEET (MSDS)****SPADNS (COMPLEXOMETRIC INDICATOR)****9. Physical and Chemical Properties**

**Appearance:** Red to brown Powder.  
**Odor:** No information found.  
**Solubility:** Moderate (1-10%)  
**Specific Gravity:** No information found.  
**pH:** No information found.  
**% Volatiles by volume @ 21C (70F):** 0  
**Boiling Point:**

**10. Stability and Reactivity**

**Stability:** Stable under ordinary conditions of use and storage.  
**Hazardous Decomposition Products:** Oxides of nitrogen, oxides of sulfur, carbon monoxide, carbon dioxide.  
**Hazardous Polymerization:** Will not occur.  
**Incompatibilities:** Strong oxidizing agents.  
**Conditions to Avoid:** No information found.

**11. Toxicological Information**

---NTP Carcinogen---

Ingredient	Known	Anticipated	IARC Category
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SPADNS (23647-14-5)	No	No	None
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**12. Ecological Information**

**Environmental Fate:** No information found.  
**Environmental Toxicity:** No information found.

**13. Disposal Considerations**

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

**14. Transport Information**

Not regulated.

**15. Regulatory Information**

SARA Title III: N/A  
Federal Regulatory: N/A

**16. Other Information**

**Label Hazard Warning:** CAUTION! MAY CAUSE IRRITATION.  
**Label Precautions:** During use avoid contact with eyes, skin, clothing. Wash thoroughly after handling. When not in use keep in tightly closed container.  
**Label First Aid:** In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes.  
**Product Use:** Laboratory Reagent.

**MATERIAL SAFETY DATA SHEET (MSDS)**

**SPADNS (COMPLEXOMETRIC INDICATOR)**

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

DISCLAIMER:

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- **SUVCHEM** shall not be responsible for any damage resulting from handling or from contact with the above product.
- **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

**End of document**