

Arichem, LLC
MATERIAL SAFETY DATA SHEET
Sodium Toluene Sulfonate

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SECTION 1 MATERIAL IDENTIFICATION

Product name: Sodium Toluene Sulfonate

Specification number: 121

Chemical name: Sodium Toluene Sulfonate

Formula: $C_7H_7NaO_3S$

HMIS rating: Health 2; Flammability 1; Reactivity 1; Personal Protection 1

Synonyms: Sodium p-Toluenesulfonate; 4-Toluenesulfonic Acid Sodium Salt,
Sodium p-Methylbenzenesulfonate

CAS name: p-Toluenesulfonic Acid, Sodium Salt

CAS registry no: 657-84-1

Manufacturer: Arichem, LLC
187 Sloss Industries Rd.
Ariton, AL 36311

Phone numbers: Product Information: 334/762-2314
8:00 AM to 4:30 PM, Central, Monday thru Friday,
24Hr contact: 334/762-2314
Transport Emergencies:
Call CHEMTREC: 1/800/424-9300

Department of Transportation: Hazard Class: None
Shipping Name: Sodium Toluene Sulfonate
UN no: N/A

DOT Emergency Phone: 1-800-424-9300

SECTION 2 COMPONENTS

<u>Material</u>	<u>CAS#</u>	<u>% by Wt.</u>
P-Toluenesulfonic Acid, Sodium Salt	657-84-1	99.0

This component is listed on the TSCA Inventory. See Sections 3, 8 and 11 for exposure information.

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SECTION 3 HAZARD IDENTIFICATION

EMERGENCY OVERVIEW

Material is a white powder that may cause eye and skin irritation. It may also cause respiratory and digestive tract irritation. It is incompatible with oxidizing agents. When heated to decomposition it emits toxic vapors of carbon monoxide, oxides of sulfur, and carbon dioxide.

HEALTH

The known health hazards associated with P-Toluenesulfonic Acid, Sodium Salt are primarily irritation to eyes, skin, respiratory tract, and digestive system. Exposure of the eyes, mucous membranes, or prolonged exposure of the skin to this material may result in irritation of the tissue. Also this material is harmful by ingestion; nausea, vomiting, and diarrhea are symptoms.

EFFECTS OF CONTACT

Eyes: Avoid contact, irritation may develop.

Skin: Avoid contact, irritation may develop.

Ingestion: May cause gastrointestinal irritation associated with nausea, vomiting, and diarrhea.

Inhalation: Respiratory tract irritation can develop.

CARCINOGENICITY

None of the components of this material are listed by NTP, OSHA, IARC, NIOSH or ACGIII as a carcinogen.

SECTION 4 FIRST AID

Eyes or skin contact: In case of contact with the eyes, flush with tepid water for at least 15 minutes, for skin exposure flush with soap and tepid water for at least 15 minutes. Water of extreme temperatures can cause additional injuries.

Ingestion: If victim is conscious and alert, administer 2 - 4 cupfuls of milk or water. Never give anything by mouth to an unconscious person, get medical help immediately.

Inhalation: In case of exposure to concentrated vapors, immediately move the exposed person to fresh air. If they are not breathing, artificial respiration may be required. If breathing appears difficult give oxygen. Call for trained medical help immediately.

IN ALL CASES GET TRAINED MEDICAL HELP IMMEDIATELY.

NOTE TO PHYSICIAN

Treat an exposed person symptomatically and supportively.

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SECTION 5 FIRE AND EXPLOSION DATA

This material will not readily ignite. At elevated temperatures carbon monoxide, carbon dioxide, and oxides of sulfur are released.

Flash point: >932°F (500°C)

Flammable limits (air % by vol.):

- a. Lower explosive limit: not established
- b. Upper explosive limit: not established

Autoignition: not established

Extinguishing media:

- Small fires: Dry chemical, carbon dioxide, foam, or water spray.
Large fires: Dry chemical, carbon dioxide, foam, or water spray.

Fire and Explosion:

1. Combustion products contain carbon monoxide, carbon dioxide, and oxides of sulfur.

Fire Fighting Instructions:

1. Evacuate unauthorized personnel.
2. Use self-contained positive pressure breathing apparatus and chemical resistant protective clothing.
3. Approach fire from upwind.
4. Dike fire control water for assessment and possible disposal. See Section 13

SECTION 6 ACCIDENTAL RELEASE MEASURES

1. Do not touch or walk through spilled material. Stop leak if it can be done safely. Wear adequate personal protection while working with spill. See Section 8.
2. Small Spills: Take up with sand or other noncombustible, absorbent material and save for later disposal or recycle. See Section 13
3. Large Spills: Secure spill area. Dike around spill and save for later disposal or recycle. See Section 13.
4. Do not leave spill unattended.

SECTION 7 HANDLING AND STORAGE

HANDLING:

1. Handle with care, wash thoroughly after handling.
2. Handle in a well-ventilated area. Avoid contact with eyes, skin, and clothing. Also avoid ingestion and inhalation.
3. Where adequate ventilation is not possible use a NIOSH/MSHA approved acid gas air purifying respirator or supplied air respirator depending on concentration. See Section 8.
4. Always wear chemical goggles and face shield, chemical resistant gloves, and chemical resistant apron when handling this material.

STORAGE:

1. Store in a cool, dry, well-ventilated location. Keep containers tightly closed.
2. Do not store above 140°F (60°C) for long periods.

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3. Store separately from incompatible materials. See reactivity in Section 10.
4. Rotate stock. Do not puncture containers.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

1. The ACGIH, NIOSH, or OSHA lists no exposure limits.
2. In routine handling of closed containers use chemical goggles and face shield, acid resistant gloves, and chemical resistant apron.
3. Where direct contact is possible, use additional chemical resistant protective clothing.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White powder
Odor:	None
Physical state:	Solid
Total acidity:	non-established
Vapor pressure (mmHg):	non-established
Vapor density (air = 1):	non-established
Boiling Point:	non-established
Melting point:	non-established
Solubility in water:	yes, amount unknown
Percent volatile by volume:	non-established
Specific gravity (H ₂ O = 1):	non-established

SECTION 10 STABILITY AND REACTIVITY

Sodium Toluene Sulfonate is stable under normal temperatures and pressures.

- a. Stability: Stable
- b. Hazardous Polymerization: Will not occur.
- c. Incompatibility: Oxidizing agents.
- d. Decomposition Products: Carbon monoxide, carbon dioxide, and oxides of sulfur.

SECTION 11 TOXICOLOGICAL INFORMATION

No information available.

SECTION 12 ECOLOGICAL INFORMATION

Environmental hazard. Keep out of waterways.

SECTION 13 DISPOSAL INFORMATION

Dispose of in accordance with local, state and federal regulations. The material is not known to exhibit hazardous waste properties.

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SECTION 14 TRANSPORTATION INFORMATION

Proper shipping name: Not regulated
Hazard class: N/A
UN no: Not assigned
DOT/IMO label: N/A
Special provisions: N/A
Packaging:
 a. Group: N/A
 b. Authorization: N/A
 c. Exceptions: N/A

Quantity limitations:

- a. Passenger, aircraft or rail: N/A
- b. Cargo only, aircraft: N/A

Stowage provisions: N/A
Reportable quantity: N/A

SECTION 15 REGULATORY INFORMATION

TSCA STATUS: On TSCA Inventory
CERCLA RQ: N/A
SARA TITLE III
 Section 302 TPQ: N/A
 Section 304 EHS: N/A
 Section 311/312: N/A
 Section 313: N/A
RCRA WASTE NUMBER: N/A
California Proposition 65: N/A
WHIMS: Not available
CANADIAN: Present on the DSL

SECTION 16 OTHER INFORMATION

Section(s) revised: All revised to new format and to include most up to date information.

MSDS date: 11/02/06

Supersedes date: 01/12/99

The data of this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material. While the data contained herein is based on technical data that

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Arichem, LLC believes to be reliable, it is intended for use by persons having technical skill and at their own discretion and risk.