

MATERIAL SAFETY DATA SHEET**Product Name:** p-Toluenesulphonic acid monohydrate**CAS No.:** 6192-52-5**Version:** 1**1. Identification**

Product Code : 90522, 91628
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2. Composition/Information on Ingredients

Ingredient	CAS No	Percent
p-TOLUENESULPHONIC ACID MONOHYDRATE	6192-52-5	98-100 %

3. Hazards Identification

Emergency Overview : DANGER! CORROSIVE. CAUSES BURNS. HARMFUL IF SWALLOWED OR INHALED. MATERIAL IS EXTREMELY DESTRUCTIVE TO THE UPPER RESPIRATORY TRACT, EYES AND SKIN.

Saf-T-Data

Health Rating : 3 - Severe
Flammability Rating : 1 - Slight
Reactivity Rating : 2 - Moderate
Contact Rating : 3 - Severe (Corrosive)

Potential Health Effects

Inhalation : Corrosive. Extremely destructive to tissues of the mucous membranes and upper respiratory tract. Symptoms may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting. Inhalation may be fatal as a result of spasm inflammation and edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema.

Ingestion : Extremely destructive to tissues. May be fatal.

Skin Contact : Extremely destructive to skin. Causes irritation, redness, pain, and burns.

Eye Contact : Extremely destructive to eyes. Causes irritation, redness, pain, and burns.

Chronic Exposure : No information found.

Aggravation of Pre-existing Conditions : No information found.

MATERIAL SAFETY DATA SHEET**Product Name:** p-Toluenesulphonic acid monohydrate**CAS No.:** 6192-52-5**Version:** 1**4. First Aid Measures**

- General information** : Get medical advice/attention if you feel unwell. If medical advice is needed, have product container or label at hand. Show this safety data sheet to the doctor in attendance.
- Inhalation** : Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician immediately
- Ingestion** : DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. Call a physician immediately.
- Skin Contact** : In case of contact, wipe off excess material from skin then immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician immediately.
- Eye contact** : Immediately flush eyes with gentle but large stream of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Call a physician immediately.

5. Fire fighting measures

- Fire** : Flash point: 184C (363F) CC
Autoignition temperature: 350C (662F)
As with most organic solids, fire is possible at elevated temperatures or by contact with an ignition source
- Explosion** : Not considered to be an explosion hazard.
- Fire Extinguishing Media** : Water spray, dry chemical, alcohol foam, or carbon dioxide. May react strongly with water.
- Special Information** : In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode..

6. Accidental Release Measures

- Personal precautions, protective equipment and emergency procedures** : Keep unauthorized personnel away. Keep upwind. Ventilate closed spaces before entering them. Avoid inhalation of dust. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
- Methods and material for containment and cleaning up** : Sweep up and place in a clearly labeled container for chemical waste.
Clean surface thoroughly to remove residual contamination.
- Notification Procedures** : Prevent entry into waterways, sewer, basements or confined areas.

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Environmental precautions : Inform authorities if large amounts are involved.
: Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. Handling and Storage

Precautions for safe handling : Protect against physical damage. Isolate from incompatible substances. Protect from moisture. 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.

Conditions for safe storage, including any incompatibilities : 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 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 dust or mist is apparent, a half-face dust/mist respirator may be worn. 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.**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.**Other** : Clothing contaminated with this material may be an increased fire hazard. Wash contaminated clothing as soon as possible.**Respiratory protection** : In case of inadequate ventilation use suitable respirator.**Hygiene measures** : 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.

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9. Physical and Chemical Properties

Appearance	:	Off-white crystals.
Odor	:	Odorless when pure; technical grade has a slight aromatic odor
pH	:	No information found.
Melting point/freezing point	:	103 - 106C (217 - 223F)
Initial boiling point and boiling range	:	140C (284F) @ 20mm , anhydrous
Flash Point	:	184C (363F) CC
Vapor pressure	:	No information found.
Vapor density	:	6.0 (Air=1)
Relative density	:	1.23-1.24 g/cm ³ at 20C (anhydrous)
Solubility in water	:	67g/100mL water, anhydrous.
Solubility (other)	:	No data available.
Formula	:	C ₇ H ₈ O ₃ S.H ₂ O
Molecular Weight	:	190.22 g/mol

10. Stability and Reactivity

Stability	:	Stable under ordinary conditions of use and storage. A strong acid when dissolved in water, the solution is corrosive and reacts violently with bases.
Hazardous Decomposition Products	:	Burning may produce carbon monoxide, carbon dioxide, sulfur oxides.
Hazardous Polymerization	:	This substance does not polymerize.
Incompatibilities:	:	Solution is a strong acid. Incompatible with sulfuric acid, caustics, ammonia, amines, amides, organic anhydrides, isocyanates, vinyl acetate, alkylene oxide and epichlorohydrin. Attacks metals in the presence of moisture and produces hydrogen gas.
Conditions to Avoid:	:	No information found.

11. Toxicological Information

Toxicological Data:

For anhydrous p-Toluenesulfonic acid: Oral rat LD50: 2480 mg/kg.

Cancer Lists			
Ingredient	IARC Monographs on the Evaluation of Carcinogenic Risks to Humans	US. National Toxicology Program (NTP) Report on Carcinogens	US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Toluene Sulfonic Acid (104-15-4)	No	No	None

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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 : No data available.

BOD/COD ratio Product : No data available.

Bioaccumulative potential

Bioconcentration factor (BCF) Product : No data available on bioaccumulation.

Product

Partition coefficient n-octanol / water (log Kow) Product : No data available.

Mobility in soil : No data available.

Other adverse effects : No data available.

13. Disposal consideration

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

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

14. Transport Information

	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
DOT	UN2585	ALKYLSULPHONIC ACID, SOLID	8	III	No
IMDG	UN2585	ALKYLSULPHONIC ACID, SOLID	8	III	No
IATA	UN2585	ALKYLSULPHONIC ACID, SOLID	8	III	No

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This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture
No Data Available.

16. Other Information**Issue Date :**01/07/2016**Version : 01**

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