

SAFETY DATA SHEET

Section 1: Identification

Product identifier used on the label;

Product name: PARA TOLUENE SULFONIC ACID

Other means of identification;

p-Toluenesulfonic acid monohydrate

Distributed by:

Univar Solutions USA

3075 Highland Pkwy Ste 200

Downers Grove, IL 60515

Telephone: 1-855-429-2661

Emergency phone number:

CHEMTREC 1-800-424-9300

Recommended use of the chemical and restrictions on use;

Recommended use: Intermediate for chemical synthesis, catalyst

Restrictions on use: No information

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party;

Name: Konan Chemical Manufacturing Co., Ltd.

Department in Charge: Technological R&D Division

Address: 1515 Kita Gomizuka, Kusu-cho, Yokkaichi-shi, Mie Prefecture
510-0103, Japan

Telephone number: +81-59-397-2612

Fax number: +81-59-397-2608

e-mail address: info@konanchemical.co.jp

Emergency phone number

CHEMTREC +1-703-527-3887 / 1-800-424-9300

Section 2: Hazard(s) identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

Physical Hazards

Not classified

Health Hazards

Acute toxicity (oral) Category4

Skin corrosion/ irritation Category1

Eye damage/ irritation Category1

Specific target organ toxicity single exposure Category3

Signal word, hazard statement(s), symbol(s) and precautionary statement(s) in accordance with paragraph (f) of §1910.1200;

Symbol(s)



Signal word

Danger

Hazard Statement(s)

Harmful if swallowed
Causes severe skin burns and eye damage
Causes serious eye damage
May cause respiratory irritation

Precautionary Statement(s)

[Prevention]

Wash exposed body parts thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.
Do not breathe dust or mist.
Avoid breathing dust/fume/vapours
Use only outdoors or in a well-ventilated area.

[Emergency response]

Do not eat, drink or smoke when using this product.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Immediately call a POISON CENTER/doctor.
Wash contaminated clothing before reuse.

[Storage]

Specific treatment (see FIRST-AID MEASURES section)
Store in a well-ventilated place. Keep container tightly closed.
Store locked up.

[Disposal]

Dispose of contents and container in accordance with local, regional, national, and international regulations.

Description of any hazards not otherwise classified;

No information

Ingredient with unknown acute toxicity in the mixture

Sulfuric acid : 1.0% max.

Section 3: Composition/information on ingredients

Compositions (contents of the product)

Chemical name	CAS No.	Concentration/concentration ranges (wt %)
p-Toluenesulfonic acid monohydrate	6192-52-5	≥97.0

Section 4: First-aid measures

Necessary first-aid measures by relevant routes of exposure;

IF INHALED Remove person to fresh air and keep comfortable for breathing.
IF ON SKIN Take off immediately all contaminated clothing. Rinse skin with water/ shower. Get medical attention immediately.
IF IN EYES Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical

IF SWALLOWED attention immediately.
 Rinse mouth. Do NOT induce vomiting. If cough or breathing
 difficulty occurs, get medical treatment. Get medical attention
 immediately.

Most important symptoms/effects, acute and delayed;

Contact with water may form strong acid.
 Toxic gases (e.g. sulfur oxide) will form upon combustion.

Indication of immediate medical attention and special treatment needed, if necessary;

Immediate medical attention not needed. If skin or eye irritation persists, or you feel unwell, get medical attention.

Section 5: Fire-fighting measures

Suitable (and unsuitable) extinguishing media;

Suitable extinguishing media:

Dry chemical powder, fire form, water spray or carbon dioxide

Unsuitable extinguishing media

Direct pouring cylinder shaped water

Specific hazards arising from the chemical;

Toxic gases (e.g. sulfur oxides) will form upon combustion.

Special protective equipment and precautions for fire-fighters;

Wear hazard mask and fire-proof protective clothing when fire-fighting.

Section 6: Accidental release measures

Personal precautions, protective equipment, and emergency procedures;

Take necessary measures to prevent skin and eye contact.
 Do not wash away into sewer or waterway.

Methods and materials for containment and cleaning up;

Cover with dry lime or soda ash. Place in a covered container.

Note;

Consult an expert on the disposal of recovered material.

Section 7: Handling and storage

Precautions for safe handling

Avoid contact with skin or eyes.
 Do not give any physical damage to a container.
 Take necessary measures described in "8. EXPOSURE CONTROLS AND PERSONAL PROTECTION".

Advice on general occupational hygiene:

Wash hands thoroughly after handling. Change clothing if contaminated with the product.

Conditions for safe storage:

Store in a cool dry, well ventilated location.

Packing material:

Follow relevant laws and regulations.

Section 8: Exposure controls/personal protection

Occupational Exposure Limits;

Not established

Appropriate engineering controls;

No information

Individual protection measures, such as personal protective equipment;

Respiratory protection	Wear appropriate hazard mask.
Hand protection	Wear protective gloves as appropriate.
Eye protection	Wear protective glasses/goggles as appropriate.
Skin and body protection	Use safety gloves, boots and apron.
Hygiene measures	Make available emergency shower and eye washer in the work place. Wash hands well after use.

Environmental exposure controls;

No information

Section 9: Physical and chemical properties

Appearance	White crystalline solid
Odor	No data
Odor threshold	No data
pH	< 2 (1% aqueous solution)
Melting point	103~106 °C
Boiling point	No data
Flash point	139 °C (closed cup)
Evaporation rate	No data
Flammability	No data
Upper/lower flammability or explosive limits	No data
Vapor pressure	No data
Vapor density	No data
Relative density	0.4~0.6g/cm ³ (bulk density)

Partition coefficient: <i>n</i> -octanol/water	Log Pow = 0.784
Solubility in water	300g (25 °C/100 ml water)
Auto-ignition temperature	No data
Decomposition temperature	No data
Viscosity	No data

Section 10: Stability and reactivity

Reactivity

This product is considered a stable material under normal and anticipated storage and handling conditions.

Chemical stability

Stable under normal handling.

Possibility of hazardous reactions

No hazardous reaction expected under normal handling.

Conditions to avoid

Sunlight. Heat. High humidity.

Incompatible materials

Bases. Oxidizing agents. Metals.

Hazardous decomposition products

Oxides of carbon. Oxides of sulfur.

Section 11: Toxicological information

Symptoms related to the physical, chemical and toxicological characteristics;

Acute toxicity (oral):	Rats LD ₅₀ = 1,410 mg/kg
Acute effects (irritation and corrosivity):	Irritating to eyes, skin, mucous membrane and respiratory tract.
Sensitisation:	No information
Repeated dose toxicity:	No information
Toxicokinetics, metabolism and distribution:	No information
CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):	No information

Section 12: Ecological information

Ecotoxicity (aquatic toxicity):

No information

Mobility in soil:

No information

Persistence and degradability:

No information

Bioaccumulative potential:

Bioaccumulation is not expected based on the log Pow = 0.784.

PBT assessment:

Not fulfill

Other adverse effects:

No information

Section 13: Disposal considerations

Waste treatment methods

Dissolve or mix the product with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Ask to a waste trader who is certificated by the local governors or consult to local public offices if case they deal with the waste.

Section 14: Transport information

UN number	2585
UN proper shipping name	ARYLSULPHONIC ACIDS, SOLID
Transport hazard class(es)	Class 8 (Corrosive substances)
Packing group	III
Environmental hazards	Not applicable.
Transport in bulk according to Annex II of MARPOL 73/78 and IBC code	Not applicable

Special precautions for user

When transporting, confirm no damage to containers. Avoid handling violently or getting wet. Load to prevent fall or falling down containers and take preventive measures of collapse.

Section 15: Regulatory information

TSCA Chemical Substances Inventory:	Listed
TSCA Section 12(b) (export notification requirements)	Not listed
EPCRA Section 313 Toxics Release Inventory:	Not listed

Section 16: Other information, including date of preparation or last revision

Update history:

Date of issue: 14 September, 2022

***[Disclaimer]** This MSDS has been prepared in accordance with the following regulations;*

· 29 CFR §1910.1200

The information herein is given in good faith, but no warranty, express or implied, is made.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present

unknown hazards and should be used in caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.