

## **SAFETY DATA SHEET**

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Issue Date 29-Aug-2005 Revision Date 14-Feb-2023 Version 3

# Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

Product Code(s) 2277924

Product Name Ammonium p-Toluenesulfonate

Synonyms Ammonium p-Toluenesulfonate p-Toluenesulfonic acid, ammonium salt

**CAS No** 4124-42-9

EC No (EU Index No) 223-927-4

Formula C7H8O3S • H3N

Molecular weight 189.25 g/mole

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Laboratory Reagent.

Uses advised against Consumer use

## 1.3. Details of the supplier of the safety data sheet

#### **Supplier**

HACH UK Laser House Ground Floor, Suite B Waterfront Quay, Salford Quays GB - Manchester, M50 3XW Tel. +44 (0) 161 872 1487 info-uk@hach.com

HACH Ireland Unit 34 GB Business Park Little Island IRL-Co. Cork T45 H681 Tel. +353 (0)146 02 522 info-ie@hach.com

#### 1.4. Emergency telephone number

UK: Poison Control Center Mainz: Tel: +49 (0) 6131 19240 - 24 hour emergency service IE: National Poisons Information Centre (NPIC) 01 809 2566 (24/7)

## **Section 2: HAZARDS IDENTIFICATION**

## 2.1. Classification of the substance or mixture

BE / EGHS Page 1/13

#### Regulation (EC) No 1272/2008

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2 - (H319)
Specific target organ toxicity — single exposure	Category 3 - (H335)

#### 2.2. Label elements

#### **CAS No**

4124-42-9

Contains Benzenesulfonic acid, 4-methyl-, ammonium salt

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]



## Signal word

Warning

#### **Hazard statements**

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H335 - May cause respiratory irritation

#### Precautionary Statements - EU (§28, 1272/2008)

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray

P280 - Wear protective gloves and eye/face protection

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P332 + P313 - If skin irritation occurs: Get medical advice/attention

P337 + P313 - If eye irritation persists: Get medical advice/attention

P312 - Call a POISON CENTER or doctor if you feel unwell

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P362 + P364 - Take off contaminated clothing and wash it before reuse

#### 2.3. Other hazards

No information available.

#### PBT & vPvB

This mixture contains no substance considered to be persistent, bioaccumulating or toxic (PBT)

This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB)

## **Section 3: COMPOSITION/INFORMATION ON INGREDIENTS**

## 3.1 Substances

BE / EGHS Page 2/13

Chemical name	CAS No. EC No. Index No.	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
Benzenesulfonic acid, 4-methyl-, ammonium salt		100%	Not classified	-	-	-

## Full text of H- and EUH-phrases: see section 16

Acute Toxicity Estimate No information available

## **Section 4: FIRST AID MEASURES**

#### 4.1. Description of first aid measures

**General advice** Show this safety data sheet to the doctor in attendance.

Inhalation Remove to fresh air. IF exposed or concerned: Get medical advice/attention. Get medical

attention immediately if symptoms occur.

**Eye contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and

persists.

Skin contact Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical

attention if irritation develops and persists.

**Ingestion** Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious

person. Call a doctor.

**Self-protection of the first aider** Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

4.2. Most important symptoms and effects, both acute and delayed

**Symptoms** May cause redness and tearing of the eyes. Burning sensation.

4.3. Indication of any immediate medical attention and special treatment needed

**Note to doctors** Treat symptomatically.

## **Section 5: FIREFIGHTING MEASURES**

5.1. Extinguishing media

surrounding environment.

**Unsuitable extinguishing media** No information available.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the

chemical

Thermal decomposition can lead to release of irritating and toxic gases and vapours.

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BE / EGHS Page 3/13

Version 3

**Hazardous combustion products** Ammonia. Sulphur oxides. nitrogen oxides. carbon monoxide, carbon dioxide.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.

Additional information Fire residues and contaminated fire extinguishing water must be disposed of in accordance

with local regulations.

## Section 6: ACCIDENTAL RELEASE MEASURES

## 6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation. Use personal protective equipment as required. Evacuate

personnel to safe areas. Avoid contact with skin, eyes or clothing.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. **Environmental precautions** 

6.3. Methods and material for containment and cleaning up

Prevent further leakage or spillage if safe to do so. **Methods for containment** 

Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal. Avoid creating dust.

Clean contaminated objects and areas thoroughly observing environmental regulations. Prevention of secondary hazards

6.4. Reference to other sections

See section 8 for more information. See section 13 for more information. Reference to other sections

## **Section 7: HANDLING AND STORAGE**

#### 7.1. Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with Advice on safe handling

> skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse. Ensure adequate ventilation. Avoid breathing vapours or mists. In case of insufficient ventilation, wear suitable respiratory

equipment.

General hygiene considerations Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this

product. Avoid contact with skin, eyes or clothing. Avoid creating dust.

7.2. Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place.

7.3. Specific end use(s)

Specific use(s) Analytical reagent.

**Risk Management Methods (RMM)** The information required is contained in this Safety Data Sheet.

BE / EGHS Page 4/13

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure Limits This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies

**Derived No Effect Level (DNEL)**No information available.

Predicted No Effect Concentration

(PNEC)

No information available.

Additional information No information available.

8.2. Exposure controls

Engineering controls

Technical measures and appropriate working operations should be given priority over the

use of personal protective equipment. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific

workplace.

Personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles).

**Hand protection** Wear suitable gloves. Impervious gloves. Barrier creams may help to protect the exposed

areas of skin. Gloves must be inspected prior to use. The selected protective gloves have to satisfy the specifications of EU Directive 2016/425 and the standard EN 374-1:2016 derived

from it. Chemical resistant gloves made of butyl rubber or nitrile rubber category III acco.

Gloves			
Duration of contact	PPE - Glove material	Glove thickness	Break through time
Short term	Wear protective nitrile rubber gloves	0,11 mm	480 minutes
Long term (repeated)	Wear protective nitrile rubber gloves	0,11 mm	480 minutes

**Skin and body protection** Wear suitable protective clothing. Long sleeved clothing.

**Respiratory protection** Ensure adequate ventilation. No protective equipment is needed under normal use

conditions. If exposure limits are exceeded or irritation is experienced, ventilation and

evacuation may be required. Wear breathing apparatus if exposed to

vapours/dusts/aerosols.

General hygiene considerations Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this

product. Avoid contact with skin, eyes or clothing. Avoid creating dust.

**Environmental exposure controls** Do not allow into any sewer, on the ground or into any body of water.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1. Information on basic physical and chemical properties

Physical state Solid

Colour white Odour Odourless

BE / EGHS Page 5/13

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

Molecular weight 189.25 g/mole

**pH** 4.3 5% Solution

Melting point / freezing point > 300 °C / 572 °F

Initial boiling point and boiling range No data available

Evaporation rate Not applicable

Vapour pressure Not applicable

Relative vapor density

No data available

Specific Gravity 1.72

Partition coefficient No data available

**Soil Organic Carbon-Water Partition** 

Coefficient

No data available

Autoignition temperature No data available

**Decomposition temperature**No data available

Dynamic viscosity Not applicable

Kinematic viscosity Not applicable

Relative density

## Solubility(ies)

#### Water solubility

Water solubility classification	Water solubility	Water Solubility Temperature
Soluble	> 1000 mg/L	25 °C / 77 °F

#### Solubility in other solvents

Chemical Name_	Solubility classification	Solubility	Solubility Temperature_
Ethyl alcohol	Soluble	> 1000 mg/L	25 °C / 77 °F
Ether	Soluble	> 1000 mg/L	25 °C / 77 °F
Acids	Slightly soluble	> 0.1 mg/L	25 °C / 77 °F

## **Metal Corrosivity**

Steel Corrosion Rate Not applicable

Aluminum Corrosion Rate 0.13 mm/yr / 0.01 in/yr

**Explosive properties** 

Upper explosion limitNo data availableLower explosion limitNo data available

Flammable properties

Flash point Not applicable

BE / EGHS Page 6/13

**Flammability** 

Upper flammability limit:No data availableLower flammability limitNo data available

Oxidising properties No data available.

Bulk density

No data available

9.2. Other information

No information available.

## **Section 10: STABILITY AND REACTIVITY**

10.1. Reactivity

**Reactivity** No information available.

10.2. Chemical stability

**Stability** Stable under normal conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions 
None under normal processing.

10.4. Conditions to avoid

**Conditions to avoid**None known based on information supplied.

10.5. Incompatible materials

**Incompatible materials** Strong acids. Strong bases. Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous Decomposition Products Carbon dioxide. Carbon monoxide. nitrogen oxides. Sulphur oxides. Ammonia.

## Section 11: TOXICOLOGICAL INFORMATION

#### 11.1. Information on toxicological effects

**Acute toxicity** 

Based on available data, the classification criteria are not met

Mixture If available, see ingredient data below.

Substance No data available.

**Acute Toxicity Estimate (ATE)** 

Not applicable

Skin corrosion/irritation

Classification based on data available for ingredients. Irritating to skin.

BE / EGHS Page 7/13

Mixture If available, see ingredient data below.

Substance No data available.

#### Serious eye damage/eye irritation

Classification based on data available for ingredients. Causes serious eye irritation.

Mixture If available, see ingredient data below.

Substance No data available.

#### Respiratory or skin sensitisation

Based on available data, the classification criteria are not met.

Mixture If available, see ingredient data below.

Substance No data available.

#### **STOT - single exposure**

May cause respiratory irritation.

Mixture If available, see ingredient data below.

Substance No data available.

#### STOT - repeated exposure

Based on available data, the classification criteria are not met.

Mixture If available, see ingredient data below.

Substance No data available.

#### Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Mixture invitro **Data** If available, see ingredient data below.

Substance invitro **Data** No data available.

Mixture invivo **Data** If available, see ingredient data below.

Substance invivo **Data** No data available.

#### Carcinogenicity

Based on available data, the classification criteria are not met.

Mixture If available, see ingredient data below.

Substance No data available.

#### Reproductive toxicity

Based on available data, the classification criteria are not met.

Mixture No data available.

Substance No data available.

#### **Aspiration hazard**

Based on available data, the classification criteria are not met.

## 11.2 Information on other hazards

BE / EGHS Page 8/13

Other dangerous properties can not be excluded. Handle in accordance with good industrial hygiene and safety practice.

#### 11.2.1. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

11.2.2. Other information

Other adverse effects No information available.

## **Section 12: ECOLOGICAL INFORMATION**

12.1. Toxicity

**Ecotoxicity** Based on available data, the classification criteria are not met.

**Mixture** 

Acute aquatic toxicity: If available, see ingredient data below.

Aquatic Chronic Toxicity: If available, see ingredient data below.

Substance

Acute aquatic toxicity: No data available.

Aquatic Chronic Toxicity: No data available.

12.2. Persistence and degradability

Mixture No data available.

12.3. Bioaccumulative potential

Mixture: No data available.

Partition coefficient No data available

12.4. Mobility in soil

Soil Organic Carbon-Water Partition

Coefficient

No data available

#### 12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

#### 12.6. Endocrine disrupting properties

Endocrine Disruptor Information: This product does not contain any known or suspected endocrine disruptors

#### 12.7. Other adverse effects

No information available.

Ozone: Not applicable

Ozone depletion potential (ODP): No information available

## **Section 13: DISPOSAL CONSIDERATIONS**

## 13.1. Waste treatment methods

BE / EGHS Page 9/13

#### **Advice on Disposal**

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

#### Waste disposal number of waste from residues/unused products

WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and 160506

discarded chemicals; laboratory chemicals, consisting of or containing hazardous

substances, including mixtures of laboratory chemicals; hazardous waste.

#### Waste disposal number of used product

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and

discarded chemicals; laboratory chemicals, consisting of or containing hazardous

substances, including mixtures of laboratory chemicals; hazardous waste.

Contaminated packaging Dispose of contents/containers in accordance with local regulations.

Other Information Do not reuse empty containers.

## Section 14: TRANSPORT INFORMATION

#### **IMDG**

14.1 UN number or ID number Not regulated 14.2 Proper shipping name Not regulated 14.3 Transport hazard class(es) Not regulated 14.4 Packing Group Not regulated 14.5 Marine pollutant Not applicable

See section 6-8 for more information 14.6 Special precautions for user

14.7. Transport in bulk according to Not applicable

Annex II of MARPOL and the IBC

Code

## ADR

14.1 UN number or ID number Not regulated Not regulated 14.2 Proper shipping name Not regulated 14.3 Transport hazard class(es) 14.4 Packing Group Not regulated 14.5 Environmental hazards Not applicable

14.6 Special precautions for user See section 6-8 for more information

#### IATA

14.1 UN number or ID number Not regulated 14.2 Proper shipping name Not regulated 14.3 Transport hazard class(es) Not regulated Not regulated 14.4 Packing group 14.5 Environmental hazards Not applicable

14.6 Special precautions for user See section 6-8 for more information

#### **Additional information**

There is a possibility that this product could be contained in a reagent set or kit composed of various compatible dangerous goods. If the item is not in a reagent set or kit, the classification given above applies.

If the item is part of a reagent set or kit the classification would change to the following:

UN3316 Chemical Kit, Hazard Class 9, Packing Group II or III.

If the item is not regulated, the Chemical Kit classification does not apply.

## Section 15: REGULATORY INFORMATION

BE / EGHS Page 10 / 13

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### **European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

#### Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Persistent Organic Pollutants Not applicable

#### Dangerous substance category per Seveso Directive (2012/18/EU)

Non-controlled

#### Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

#### Germany

Water hazard class (WGK) obviously hazardous to water (WGK 2)

**International Inventories** 

EINECS/ELINCS Complies
TSCA Complies
DSL/NDSL Complies

ENCS Does not comply
IECSC Does not comply
KECL - Existing substances Complies

PICCS Does not comply Complies

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

#### 15.2. Chemical safety assessment

Chemical Safety Report Chemical safety assessments for substances in this mixture were not carried out.

BE / EGHS Page 11/13

## **Section 16: OTHER INFORMATION**

 Issue Date
 29-Aug-2005

 Revision Date
 14-Feb-2023

**Revision Note** New SDS, SDS sections updated, 3, 9, 11, 12.

#### Key or legend to abbreviations and acronyms used in the safety data sheet

#### Legend

\*\* Hazard Designation

ADN Accord européen relatif au transport international des marchandises dangereuses par voies

de navigation intérieure

ADR European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE Acute Toxicity Estimate

CAS Chemical Abstracts Service Number

Ceiling Maximum limit value

CLP Classification, Labelling and Packaging of substances and mixtures [Regulation (EC) No.

1272/2008]

DNEL Derived No Effect Level (DNEL)

EC European Community

ECHA ECHA (The European Chemicals Agency)
EC50 Effective Concentration to 50% of a test population

EEC European Economic Community

EN European Standard

IMDG International Maritime Dangerous Goods (IMDG)
IATA International Air Transport Association (IATA)

IATA-DGR International Air Transport Association - Dangerous Goods Regulations

ICAO International Civil Aviation Organization

ICAO-TI International Civil Aviation Organization - Technical Instructions
IUCLID IUCLID (The International Uniform Chemical Information Database)
GHS Globally Harmonized System of Classification and Labelling of Chemicals

LOAEL Lowest observed adverse effect level

LOAEC Lowest observed adverse effect concentration LC50 Lethal Concentration to 50% of a test population

LD50 Lethal Dose to 50% of a test population (Median Lethal Dose)
LOLI LOLI (List of Lists - An International Chemical Regulatory Database)

MAK Maximale Arbeitsplatz-Konzentration, a German expression corresponding to threshold limit

value, which relates to safe daily exposure levels to chemical substances

NOAEL NOAEL (No observed adverse effect level)
NOAEC No observed adverse effect concentration

OSHA Occupational Safety and Health Administration of the US Department of Labour)

PEC Predicted Effect Concentration

PNEC Predicted No Effect Concentration (PNEC)

PBT Persistent, Bioaccumulative, and Toxic (PBT) Chemicals

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals [Regulation (EC) No.

1907/2006])

RID Règlement international concernant le transport des marchandises dangereuses par chemin

de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

RTECS RTECS (Registry of Toxic Effects of Chemical Substances)

TWA TWA (time-weighted average)

SKN\* Skin designation SKN+ Skin sensitisation

STEL STEL (Short Term Exposure Limit)
STOT Specific Target Organ Toxicity

STOT RE Specific target organ toxicity — repeated exposure STOT SE Specific target organ toxicity — single exposure

SVHC Substances of Very High Concern

TLV Threshold Limit Value

BE / EGHS Page 12/13

TRGS Technical rules for hazardous substances, Germany

TSCA Toxic Substances Control Act

UN United Nations

vPvB very persistent and very bioaccumulative

VOC Volatile organic compounds

AwSV Administrative regulation of water polluting substances, Germany

## Key literature references and sources for data See Section 11: TOXICOLOGICAL INFORMATION See Section 12: ECOLOGICAL INFORMATION

Classification procedure

Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - Vapour	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitisation	Calculation method
Skin sensitisation	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration toxicity	Calculation method
Ozone	Calculation method

Training Advice Take note of Directive 98/24/EC on the protection of the health and safety of workers from

the risks related to chemical agents at work

**Restrictions on use** For Laboratory Use Only.

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

**End of Safety Data Sheet** 

BE / EGHS Page 13/13