



## Safety Data Sheet

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### Section 1. Identification of the substance/mixture and of the company/undertaking

#### Product identifier:

Product name: Zinc p-toluenesulfonate,6-hydrate

SDS No. : 8809E-2

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

Research and Development

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

Manufacturer/Supplier: KISHIDA CHEMICAL CO., LTD.

Address: 3-1, Honmachibashi, Chuo-ku, Osaka, JAPAN

Division: Chemical Safety Management Department

Telephone number: +81-6-6946-8061

FAX: +81-6-6946-1607

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### Section 2. Hazards identification

#### GHS classification and label elements of the product

#### Classification of the substance or mixture

##### HEALTH HAZARDS

Skin corrosion/irritation: Category 2

Serious eye damage/eye irritation: Category 2

Specific target organ toxicity – single exposure: Category 3 (Respiratory tract irritation)

(Note) GHS classification without description: Not classified/Classification not possible

#### Label elements



Signal word: Warning

#### HAZARD STATEMENT

Causes skin irritation

Causes serious eye irritation

May cause respiratory irritation

#### PRECAUTIONARY STATEMENT

##### Prevention

Avoid breathing dust/fume/gas/mist/vapors/spray.

Use only outdoors or in a well-ventilated area.

Wash contaminated parts thoroughly after handling.

Wear protective gloves.

Wear eye protection/face protection.

##### Response

Call a POISON CENTER/doctor/physician if you feel unwell.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF ON SKIN: Wash with plenty of soap and water.

If skin irritation occurs: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

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

If eye irritation persists: Get medical advice/attention.

##### Storage



Store in a well-ventilated place. Keep container tightly closed.

Disposal

Dispose of contents/container in accordance with local/national regulation.

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### Section 3. Composition/information on ingredients

Mixture/Substance selection:

Substance

Ingredient name: Zinc p-toluenesulfonate,6-hydrate

Content (%): 99(min)

Chemical formula:  $\text{Zn}(\text{CH}_3\text{C}_6\text{H}_4\text{SO}_3)_2 \cdot 6\text{H}_2\text{O}$

Chemicals No, Japan: 3-3454

CAS No.: 60553-56-2

MW: 515.88

Note : The figures shown above are not the specifications of the product.

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### Section 4. First-aid measures

Descriptions of first-aid measures

General measures

Call a POISON CENTER/doctor/physician if you feel unwell.

IF INHALED

Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER/doctor/physician if you feel unwell.

IF ON SKIN (or hair)

Take off immediately all contaminated clothing. Rinse skin with water or shower.

Wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical advice/attention.

IF IN EYES

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

IF SWALLOWED

Rinse mouth.

Call a POISON CENTER/doctor/physician if you feel unwell.

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### Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

Use appropriate extinguishing media suitable for surrounding facilities.

Unsuitable extinguishing media

Unsuitable extinguishing media data is not available.

Specific hazards arising from the substance or mixture

Containers may explode when heated.

Fire may produce irritating, corrosive and/or toxic gases.

Advice for firefighters

Specific fire-fighting measures

Evacuate non-essential personnel to safe area.

Special protective equipment and precautions for fire-fighters

Wear fire resistant or flame retardant clothing.

Wear protective gloves/protective clothing/eye protection/face protection.

Firefighters should wear self-contained breathing apparatus with full face piece operated positive pressure mode.



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## Section 6. Accidental release measures

### Personnel precautions, protective equipment and emergency procedures

Ventilate area until material pick up is complete.

Wear proper protective equipment.

### Environmental precautions

Prevent spills from entering sewers, watercourses or low areas.

Avoid raising dust.

### Methods and materials for containment and cleaning up

Sweep up, place in a bag and hold for waste disposal.

### Preventive measures for secondary accident

Collect spillage.

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## Section 7. Handling and storage

### Precautions for safe handling

#### Preventive measures

(Exposure Control for handling personnel)

Avoid breathing dust/fume/gas/mist/vapors/spray.

(Protective measures against fire and explosion)

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

(Exhaust/ventilator)

Exhaust/ventilator should be available.

(Safety treatments)

Avoid contact with skin.

Avoid contact with eyes.

#### Safety Measures

Use only outdoors or in a well-ventilated area.

Wear protective gloves, protective clothing or face protection.

Wear eye protection/face protection.

When using do not eat, drink or smoke.

#### Any incompatibilities

See "10.Stability and Reactivity"

#### Advice on general occupational hygiene

Wash contaminated parts thoroughly after handling.

Take off contaminated clothing and wash it before reuse.

### Storage

#### Conditions for safe storage

Keep container tightly closed.

Store in a cool, dry place. Do not store in direct sunlight.

#### Container and packaging materials for safe handling

Glass

Polyethylene

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## Section 8. Exposure controls/personal protection

### Control parameters

### Exposure controls

#### Appropriate engineering controls

Do not use in areas without adequate ventilation.

Eye wash station should be available.

Washing facilities should be available.

#### Individual protection measures

**Respiratory protection**

Wear respiratory protection.

**Hand protection**

Wear protective gloves.

**Eye protection**

Wear eye/face protection.

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**Section 9. Physical and Chemical Properties****Information on basic physical and chemical properties**

Physical state: Crystalline powder

Color: White

Odor: Odourless

Melting point/Freezing point data is not available.

Boiling point or initial boiling point data is not available.

Boiling range data is not available.

Flammability (gases, liquids and solids) data is not available.

Lower and upper explosion limit/flammability limit data is not available.

Flash point data is not available.

Auto-ignition temperature data is not available.

Decomposition temperature data is not available.

pH data is not available.

Kinematic viscosity data is not available.

**Solubility:**

Solubility in water: Soluble

n-Octanol/water partition coefficient data is not available.

Vapor pressure data is not available.

Density and/or relative density data is not available.

Relative vapor density (Air=1) data is not available.

Particle characteristics data is not available.

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**Section 10. Stability and Reactivity****Reactivity**

Not available.

**Chemical stability**

Stable under normal storage/handling conditions.

**Possibility of hazardous reactions**

Not available.

**Conditions to avoid**

Contact with fire source.

**Incompatible materials**

Not available.

**Hazardous decomposition products**

Carbon oxides, Sulfur oxides, Zinc compounds

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**Section 11. Toxicological Information****Information on toxicological effects**

Acute toxicity data is not available.

**Irritant properties**

Skin corrosion/irritation

[Data for components of the product]

[Company proprietary data]



(Zinc p-toluenesulfonate,6-hydrate)  
(As Zinc p-toluenesulfonate, anhydride)  
Category 2

Serious eye damage/irritation

[Data for components of the product]  
[Company proprietary data]  
(Zinc p-toluenesulfonate,6-hydrate)  
(As Zinc p-toluenesulfonate, anhydride)  
Category 2

Allergenic and sensitizing effects data is not available.

Mutagenic effects data is not available.

Carcinogenic effects data is not available.

Reproductive toxicity data is not available.

Specific target organ toxicity (STOT)

STOT-single exposure

[Data for components of the product]  
[cat.3 (respiratory tract irritation)]  
[Company proprietary data]  
(Zinc p-toluenesulfonate,6-hydrate)  
Respiratory tract irritation (As Zinc p-toluenesulfonate, anhydride)

STOT-repeated exposure data is not available.

Aspiration hazard data is not available.

Information on other hazards

May cause lung disorders by massive inhalation of powdered substance.  
-e.g. fibrosis of lung tissue, cough, sputum, breath shortness, dyspnea, decline of lung function, interstitial lung disease, pneumothorax

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## Section 12. Ecological Information

Toxicity

Toxicity data is not available.

Persistence and degradability

Persistence and degradability data is not available.

Bioaccumulative potential

Bioaccumulative potential data is not available.

Mobility in soil

Mobility in soil data is not available.

Other adverse effects

Ozone depleting chemical data is not available.

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## Section 13. Disposal considerations

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging

Waste treatment methods

Dispose of contents/container in accordance with local/national regulation.



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**Section 14. Transport Information**

- UN Number or ID Number : Not applicable
- IMDG Code (International Maritime Dangerous Goods Regulations)
  - UN Number or ID Number : Not applicable
- IATA (Dangerous Goods Regulations)
  - UN Number or ID Number : Not applicable
- Environmental hazards
  - Marine pollutants (yes/no) : no

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**Section 15. Regulatory Information**

- Safety, health and environmental regulations/legislation specific for the substance or mixture
  - U.S. Toxic Substances Control Act (TSCA) Inventory
    - Chemicals listed in TSCA Inventory
      - Zinc p-toluenesulfonate,6-hydrate
- Other regulatory information
  - Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

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**Section 16. Other information**

- GHS classification and labelling
  - Skin corrosion/irritation, Category 2: H315 Causes skin irritation
  - Serious eye damage/eye irritation, Category 2: H319 Causes serious eye irritation
  - STOT – single exposure, Category 3, Respiratory tract irritation: H335 May cause respiratory irritation.
- References and sources for data
  - Globally Harmonized System of classification and labelling of chemicals, UN
  - Recommendations on the TRANSPORT OF DANGEROUS GOODS 21th edit., 2019 UN
  - IMDG Code, 2020 Edition (Incorporating Amendment 40-20)
  - IATA Dangerous Goods Regulations (62nd Edition) 2021
  - 2020 EMERGENCY RESPONSE GUIDEBOOK (US DOT)
  - 2022 TLVs and BEIs. (ACGIH)
  - Supplier's data/information

**General Disclaimer**

This data sheet was created based on the information we currently have and may be revised according to new information. In addition, the precautions apply only to normal handling, and in the case of special handling, please make adequate countermeasure to maintain your safety.

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.

The GHS classification data given here is based on current Japan official data (NITE published in 2021).