



## Safety Data Sheet

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

Product identifier:

Product name: Sodium p-toluenesulfonchloramide,3-hydrate  
SDS No. : 1551E-3

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

Acute toxicity (Oral): Category 4  
Skin corrosion/irritation: Category 1C  
Serious eye damage/eye irritation: Category 1  
Respiratory sensitization: Category 1

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

Label elements



Signal word: Danger

HAZARD STATEMENT

H302 Harmful if swallowed  
H314 Causes severe skin burns and eye damage  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled

PRECAUTIONARY STATEMENT

Prevention

P260 Do not breathe dust/fume/gas/mist/vapors/spray.  
P284 In case of inadequate ventilation wear respiratory protection.  
P264 Wash contaminated parts thoroughly after handling.  
P280 Wear protective gloves, protective clothing or face protection.  
P280 Wear eye protection/face protection.  
P270 Do not eat, drink or smoke when using this product.

Response

P310 Immediately call a POISON CENTER/doctor/physician.  
P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor/physician.  
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.



Rinse skin with water or shower.

P363 Wash contaminated clothing before reuse.

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

P330 IF SWALLOWED: Rinse mouth.

P301 + P312 IF SWALLOWED: Call a POISON CENTER/doctor/physician if you feel unwell.

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Storage

P405 Store locked up.

Disposal

P501 Dispose of contents/container in accordance with local/national regulation.

Specific adverse human health effects

See "11. Toxicological Information".

### Section 3. Composition/information on ingredients

Mixture/Substance selection:

Substance

Ingredient name	Content (%)	CAS No.	Chemicals No, Japan	Chemical formula
Sodium p-toluenesulfonchloramide,3-hydrate	98(min)	7080-50-4	3-2178	CH <sub>3</sub> C <sub>6</sub> H <sub>4</sub> SO <sub>2</sub> N(Cl)N a·3H <sub>2</sub> O

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

### Section 4. First-aid measures

Descriptions of first-aid measures

IF INHALED

Remove person to fresh air and keep comfortable for breathing.

If experiencing respiratory symptoms: Call a POISON CENTER/doctor/physician.

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

IF ON SKIN

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

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.

Do NOT induce vomiting.

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

### 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**

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

Runoff from fire control or dilution water may cause pollution.

See "10.Stability and Reactivity".

**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 a full facepiece operated in the positive pressure mode.

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**Section 6. Accidental release measures****Personnel precautions, protective equipment and emergency procedures**

Keep unauthorized personnel away.

Ventilate area until material pick up is complete.

Wear proper protective equipment.

**Environmental precautions**

Prevent spills from entering sewers, watercourses, low areas or rivers. To be careful not discharged to the environment without being properly handled waste water contaminated.

**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)

Do not breathe 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**

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

Wash hands et al thoroughly after handling.

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.  
Do not eat, drink or smoke when using this product.  
Wash contaminated clothing before reuse.

**Storage**

## Conditions for safe storage

Keep container tightly closed.  
Store locked up. (P405)  
Chilled storage.  
Keep container protect from light.  
Storage in accordance with local/national regulation.

## Container and packaging materials for safe handling

Use closed unbreakable containers.

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**Section 8. Exposure controls/personal protection**

## Control parameters

Control value and concentration standard value are not available in ISHA.

## Adopted value

(Other inorganic and organic dust (third class dust ))  
JSOH Respirable dust 2mg/m<sup>3</sup>, Total dust 8mg/m<sup>3</sup>

## 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

Recommend to use protective equipment in conformity with the standards.  
Use appropriate protective equipment in accordance with local/national regulation.

## Respiratory protection

Wear respiratory protection (dust-proof mask/gas mask). Select chemical cartridge corresponding to type of gases when using a gas mask.

## Hand protection

Wear impervious protective glove.

## Eye protection

Wear eye/face protection. Wear safety goggles in cases gas is generated.

## Skin and body protection

Wear protective clothing.

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**Section 9. Physical and Chemical Properties**

## Information on basic physical and chemical properties

Physical state: Crystalline powder

Color: White to slightly yellow

Odor: Slightly chlorine odor

Melting point/Freezing point: (decompose) 167°C

Boiling point or initial boiling point: (Sodium p-toluenesulfonchloramide,3-hydrate)decompose

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: (Sodium p-toluenesulfonchloramide,3-hydrate)192°C



Auto-ignition temperature data is not available.  
Decomposition temperature data is not available.  
pH: 9.0~11.0(50g/L, 25°C)  
Kinematic viscosity data is not available.

**Solubility:**

Solubility in water: Easily soluble

Solubility in solvent data is not available.

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

Vapor pressure data is not available.

Density and/or relative density: 1.4 g/cm<sup>3</sup>

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

Particle characteristics data is not available.

**Other information**

Other information is not available.

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

Not available.

**Chemical stability**

May decompose on exposure to air.

**Possibility of hazardous reactions**

(As sodium p-toluenesulfonchloramide,anhydrous)

May explode on heating above 130°C(anhydrous). Decomposes slowly under the influence of air.

This produces chlorine(trihydrate). Decomposes on heating and on contact with acids. This produces toxic gases. (ICSC 0413)

**Conditions to avoid**

Contact with incompatible materials.

Contact with fire source.

**Incompatible materials**

Acids, Strong oxidizing agents, Reducing agents, Combustible materials

**Hazardous decomposition products**

Carbon oxides, Nitrogen oxides, Chlorine

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**Section 11. Toxicological Information****Information on toxicological effects****Acute toxicity****Acute toxicity (Oral)**

[Product]

Category 4, Harmful if swallowed

[Data for components of the product]

[Company proprietary data]

Category 4

**Irritant properties****Skin corrosion/irritation**

[Product]

Category 1C, Causes severe skin burns and eye damage

[Data for components of the product]

[Company proprietary data]



## Category 1C

Serious eye damage/irritation

[Product]

Category 1, Causes serious eye damage

[Data for components of the product]

[Company proprietary data]

Category 1

Sensitization

Respiratory sensitization

[Product]

Category 1, May cause allergy or asthma symptoms or breathing difficulties if inhaled

[Data for components of the product]

[Company proprietary data]

Category 1

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 is not available.

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 as industrial waste. Accordance with local/national regulation.

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**Section 14. Transport Information**

UN Number or ID Number : 3263



UN Proper Shipping Name :  
CORROSIVE SOLID, BASIC, ORGANIC, N.O.S.  
Class or division (Transport hazard class) : 8  
Packing group : III  
ERG GUIDE No.: 154

IMDG Code (International Maritime Dangerous Goods Regulations)

UN Number or ID Number : 3263  
UN Proper Shipping Name :  
CORROSIVE SOLID, BASIC, ORGANIC, N.O.S.  
Class or division (Transport hazard class) : 8  
Packing group : III

IATA (Dangerous Goods Regulations)

UN Number or ID Number : 3263  
UN Proper Shipping Name :  
CORROSIVE SOLID, BASIC, ORGANIC, N.O.S.  
Class or division (Transport hazard class) : 8  
Hazard labels : Corrosive  
Packing group : III

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

Applicable

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

References and sources for data

Globally Harmonized System of classification and labelling of chemicals, UN

Recommendations on the TRANSPORT OF DANGEROUS GOODS 22nd edit., 2021 UN

IMDG Code, 2022 Edition (Incorporating Amendment 41-22)

IATA Dangerous Goods Regulations (65th Edition) 2024

2020 EMERGENCY RESPONSE GUIDEBOOK (US DOT)

2024 TLVs and BEIs. (ACGIH)

JIS Z 7252 : 2019

JIS Z 7253 : 2019

2023 Recommendation on TLVs (JSOH)

Supplier's data/information

General Disclaimer

Please provide SDS to customers for selling or transferring.

All chemicals have unknown hazard. Handle the product with care.

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 2022).