



Safety Data Sheet

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

Product identifier:

Product name: Sulfanilic acid

SDS No. : 7427E-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

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Section 2. Hazards identification

GHS classification and label elements of the product

Classification of the substance or mixture

HEALTH HAZARDS

Serious eye damage/eye irritation: Category 2A

Skin sensitization: Category 1

Label elements



Signal word: Warning

HAZARD STATEMENT

Causes serious eye irritation

May cause an allergic skin reaction

PRECAUTIONARY STATEMENT

Prevention

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

Wash contaminated parts thoroughly after handling.

Wear protective gloves.

Contaminated work clothing should not be allowed out of the workplace.

Wear eye protection/face protection.

Response

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

If skin irritation or rash 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.

Disposal

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



Section 3. Composition/information on ingredients**Mixture/Substance selection:****Substance**

Ingredient name:Sulfanilic acid

Content (%):99(min)

Chemical formula:C₆H₇NO₃S

Chemicals No, Japan:3-1971

CAS No.:121-57-3

MW:173.19

ECNO:204-482-5

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.

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.

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.



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.

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

- 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.

- Contaminated work clothing should not be allowed out of the workplace.

- 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

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.

Section 9. Physical and Chemical Properties

Information on basic physical and chemical properties

- Physical state: Crystalline powder
- Color: White to pale red
- Odor data is not available.
- 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: Insoluble
 - n-Octanol/water partition coefficient: $\log P_{ow} = -0.9$
 - Vapor pressure data is not available.
 - Density and/or relative density: 1.49 g/cm^3
 - Relative vapor density (Air=1) data is not available.
 - Particle characteristics data is not available.

Section 10. Stability and Reactivity

- Reactivity
 - Not available.
- Chemical stability
 - Stable under normal storage/handling conditions.
- Possibility of hazardous reactions
 - Decomposes on heating at 288°C , on burning and on contact with strong acids. This produces toxic fumes including nitrogen oxides and sulfur oxides. Reacts violently with strong bases. (ICSC 0569)
- Conditions to avoid
 - Contact with incompatible materials.
 - Contact with fire source.
- Incompatible materials
 - Strong acids, Strong bases
- Hazardous decomposition products
 - Nitrogen oxides, Sulfur oxides



Section 11. Toxicological Information

Information on toxicological effects

Acute toxicity data is not available.

Irritant properties

Skin corrosion/irritation data is not available.

Serious eye damage/irritation

[Data for components of the product]

[GHS Cat. Japan, base data]

(Sulfanilic acid)

rabbit moderate irritation (IUCLID, 2000)

Sensitization

Skin sensitization

[Data for components of the product]

[GHS Cat. Japan, base data]

(Sulfanilic acid)

cat. 1; IUCLID, 2000

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

Section 12. Ecological Information

Toxicity

Aquatic toxicity

[Data for components of the product]

Hazardous to the aquatic environment (Acute)

[GHS Cat. Japan, base data]

(Sulfanilic acid)

Fish (Pimephales promelas) LC50=100.4mg/L/96hr (ECETOC TRI91, 2003)

Water solubility

(Sulfanilic acid)

poor (ICSC, 2005)

Persistence and degradability

[Data for components of the product]

(Sulfanilic acid)

Not degrade rapidly (BOD_Degradation : 3% (CSCL DB, 1998))

Bioaccumulative potential

[Data for components of the product]

(Sulfanilic acid)

log Kow=-2.16 (PHYSPROP Database, 2018)

Mobility in soil

Mobility in soil data is not available.

Other adverse effects

Ozone depleting chemical data is not available.



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.

Section 14. Transport Information

UN No. or ID No.: Not applicable

Not applicable to IMDG Code

Not applicable to IATA Dangerous Goods Regulations

Environmental hazards

MARPOL Annex III – Prevention of pollution by harmful substances

Marine pollutants (yes/no) : no

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

Sulfanilic acid

Other regulatory information

Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

Section 16. Other information

GHS classification and labelling

Serious eye damage/eye irritation, Category 2A: H319 Causes serious eye irritation

Skin sensitization, Category 1: H317 May cause an allergic skin reaction

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, 2018 Edition (Incorporating Amendment 39-18)

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).