Material Safety Data Sheet

Sulfanilic Acid

Section 1 - Product Identification

Synonyms : 4-Aminobenzenesulfonic acid, p-Aminobenzenesulfonic acid

Molecular Weight : 173.19 g/mol

Chemical Formula : $C_6H_6NO_3S$

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Recommended use of the chemical and restrictions on use:

Laboratory Chemicals, Manufacture of Substances

Section 2 – Composition/Information on Ingredients

Product Name	EC/CAS No	Concentration
Sulfanilic Acid	204-482-5/121-57-3	>= 99.0%

Section 3 – Hazards Identification

3.1 GHS Classification

Skin corrosion/irritation (Category 2), H315

Serious eye damage/eye irritation (Category 2), H319

Skin sensitisation (Category 1), H317

For the full text of the H-Statements mentioned in this Section, see Section 16.

3.2 Label elements

Hazard statement(s)

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

Precautionary statement(s)

Prevention

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

P264 Wash skin thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear eye protection/ face protection.

P280 Wear protective gloves.

Response

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

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

P362 Take off contaminated clothing and wash before reuse.

Storage

P501 Dispose of contents/ container to an approved waste disposal plant.

3.3 Other hazards

N.A.

Section 4 – First-Aid Measures

4.1. Description of first aid mesaures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

Skin contact

Wash off with soap and plenty of water, do not rub the skin. If irritation persists, obtain medical attention.

Eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Inhalation

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Ingestion

Rinse mouth with water. Do not induce vomiting. Drink as much water as possible. If large amounts are swallowed (i.e. more than one teaspoon), contact a doctor or toxicity centre immediately.

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

Most important known symptoms and effects are described in the labelling (section 2.2) and/or in section 11.

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

N.A.

Section 5 – Fire Fighting Measures

5.1. Suitable Extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2. Specific hazards arising from the chemical

Carbon oxides, Nitrogen oxides (NOx), Sulphur Oxides

5.3. Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary

5.4. Further information

Use water spray to cool unopened containers

Section 6 – Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3. Methods and material for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

Section 7 – Handling and Storage

7.1. Precautions for safe Handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

7.2. Conditions for safe storage, including any incompatibilities

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

Section 8 – Exposure Controls/Personal Protection

8.1. Control parameters

Contains no substances with occupational exposure limit values.

8.2. Appropriate engineering controls

General industrial hygiene practice. Wash hands before breaks and at the end of workday.

8.3. Individual protection measures, such as personal protective equipment (PPE)

Respirator:

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Clothing:

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Gloves:

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection:

Wear safety goggles or face shield which are tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Section 9 – Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance : Grey powder

Odour : odourless

Odour threshold : N.A.

pH @ 20°C : N.A.

Melting point : >300°C – lit.

Boiling point : ca. 300°C, decomposes below the boiling point.

Flash point : N.A.

Evaporation rate : N.A.

Flammability : N.A.

Upper/lower flammability or explosive limits : Product is not flammable

Vapour pressure : N.A.

Vapour density : N.A.

Relative density : 1.4862 g/cm^3 at 20°C

Solubility in water : 12.51 g/L at 20°C, soluble (OECD Test Guideline 105)

Partition coefficient, n-octanol/water: log Po/w = -2.297 at 25°C

Auto-ignition temperature: 331°

Section 10 – Stability and Reactivity

10.1. Reactivity

N.A.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

N.A.

10.4. Conditions to avoid:

Heat.

10.5. Incompatible materials

Strong oxidizing agents, strong bases, strong acids

10.6. Hazardous decomposition products

Hazardous decomposition products formed under fire conditions – carbon oxides and nitrogen oxides.

Section 11 – Toxicological Information

Information on toxicological effects

Acute toxicity

LD50 Oral - Rat - 12.300 mg/kg (Sulfanilic acid)

LD50 Dermal - Rat - male and female - > 2.000 mg/kg (Sulfanilic acid) (OECD Test Guideline 402)

LD50 Intravenous - Rat - 6.000 mg/kg (Sulfanilic acid)

Skin corrosion/irritation

No data available(Sulfanilic acid)

Serious eye damage/eye irritation

Eyes – Rabbit (Sulfanilic acid) Result: Irritating to eyes. (OECD Test Guideline 405)

Respiratory or skin sensitisation

No data available (Sulfanilic acid)

Germ cell mutagenicity

Hamster (Sulfanilic acid), fibroblast, Result: negative

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available (Toluene Diisocyanate)

Additional Information

Repeated dose toxicity - Rat - male and female - Oral - No observed adverse effect level - 1.000 mg/kg(Sulfanilic acid) RTECS: WP3895500

Irritant effects (Sulfanilic acid)

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. (Sulfanilic acid)

Section 12 – Ecological Information

12.1.Toxicity

Toxicity to fish static test LC50 - Danio rerio (zebra fish) - > 100 mg/l - 96 h (Sulfanilic acid) (OECD Test Guideline 203)

Toxicity to daphnia and other aquatic invertebrates static test EC50 - Daphnia magna (Water flea) - 23 mg/l - 48 h (Sulfanilic acid) (OECD Test Guideline 202)

Toxicity to algae static test EC50 - Desmodesmus subspicatus (green algae) - 97 mg/l - 72h (Sulfanilic acid) (OECD Test Guideline 201)

12.2. Persistence and degradability

Biodegradability aerobic: Exposure time 72 h (Sulfanilic acid), Result: 100 % - Readily biodegradable.

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Other adverse effects

Harmful to aquatic life

Section 13 – Disposal Considerations

13.1. Disposal methods

Product:

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chem scrubber.

Contaminated packaging:

Dispose of as unused product.

Section 14 – Transport Information

14.1. UN number : ADR/RID: - IMDG: - IATA-DGR: -

14.2. UN proper shipping name: ADR/RID, IMDG, IATA-DGR – Not dangerous goods

14.3. Transport of hazard classes : ADR/RID: - IMDG: - IATA-DGR: -

14.4. Packing group : ADR/RID: - IMDG: - IATA-DGR: -

14.5. Environmental hazards : ADR/RID: no IMDG Marine pollutant: no IATA-DGR: no

14.6. Special precautions for user : No data available

14.7. Incompatible materials: N.A.

Section 15 – Regulatory Information

15.1. Safety, health and environmental regulations for the substance/mixture:

No data available

Section 16 : Additional Information

16.1. Full text of H-Statements referred to under sections 3:

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

16.2. Disclaimer of Liability

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