

4-AMINOBENZENESULFONIC ACID

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1. Product Identification

Synonyms: Sulfanilic acid; p-anilinesulfonic acid

CAS No.: 121-57-3

Molecular Weight: 173.19

Chemical Formula: $\text{NH}_2\text{C}_6\text{H}_4\text{SO}_3\text{H}$

Product Codes: CHEM-459 and others

2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Sulfanilic Acid	121-57-3	90 - 100%	Yes

3. Hazards Identification

Emergency Overview

CAUTION! MAY CAUSE IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT.

SAF-T-DATA^(tm) Ratings

Health Rating: 1 - Slight

Flammability Rating: 1 - Slight

Reactivity Rating: 0 - None

Contact Rating: 2 - Moderate

Lab Protective Equip: GOGGLES; LAB COAT; PROPER GLOVES

Storage Color Code: Green (General Storage)

Potential Health Effects

Inhalation:

Mild irritant, can cause coughing or sneezing.

Ingestion:

Low toxicity, partly because of low water solubility. Ingestion of large amounts may cause nausea, vomiting and general gastrointestinal distress.

Skin Contact:

May cause a slight inflammation or soreness on sensitive skin areas.

Eye Contact:

Moderate irritant. Causes reddening and tearing with possible inflammation on prolonged contact.

Chronic Exposure:

No information found.

Aggravation of Pre-existing Conditions:

No information found.

4. First Aid Measures

Inhalation:

Remove to fresh air. Get medical attention for any breathing difficulty.

Ingestion:

Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person.

Skin Contact:

Wash exposed area with soap and water. Get medical advice if irritation develops.

Eye Contact:

Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

5. Fire Fighting Measures

Fire:

Not considered to be a fire hazard.

Explosion:

Not considered to be an explosion hazard.

Fire Extinguishing Media:

Use any means suitable for extinguishing surrounding fire.

Special Information:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

6. Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal.

7. Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits:

None established.

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

Personal Respirators (NIOSH Approved):

For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particulate respirator (NIOSH type N95 or better filters) may be worn. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection:

Wear protective gloves and clean body-covering clothing.

Eye Protection:

Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and Chemical Properties

Appearance:

Transparent crystals, or white powder.

Odor:

Odorless.

Solubility:

1 g/100 mL in water @ 20C (68F)

Density:

1.49

pH:

No information found.

% Volatiles by volume @ 21C (70F):

0

Boiling Point:

Not applicable.

Melting Point:

288C (550F)

Vapor Density (Air=1):

No information found.

Vapor Pressure (mm Hg):

No information found.

Evaporation Rate (BuAc=1):

No information found.

10. Stability and Reactivity

Stability:

Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products:

Toxic gases and vapors may be released if involved in a fire. Burning may produce sulfur oxides and nitrogen oxides.

Hazardous Polymerization:

Will not occur.

Incompatibilities:

Strong oxidizers.

Conditions to Avoid:

No information found.

11. Toxicological Information

Oral rat LD50: 12,300 mg/kg. Irritation data: eye rabbit: 100 mg/24H, moderate. Skin rabbit 500 mg/24H, mild.

Ingredient	Cancer Lists NTP Carcinogen		IARC Category
	Known	Anticipated	
Sulfanilic Acid (121-57-3)	No	No	None

12. Ecological Information

Environmental Fate:

No information found.

Environmental Toxicity:

Freshwater Algae Data: 72 Hr EC50 *Scenedesmus subspicatus*: 91 mg/L

Freshwater Fish Species Data: 96 Hr LC50 *Pimephales promelas*: 100.4 mg/L [static]

Microtox data: 5 min EC50 *Photobacterium phosphoreum*: 43.5 mg/L; 15 min EC50

Photobacterium phosphoreum: 60.1 mg/L; 30 min EC50 *Photobacterium phosphoreum*: 114 mg/L

Water Flea Data: 48 Hr EC50 *Daphnia magna*: 85.66 mg/L

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste facility. Although not a listed RCRA hazardous waste, this material may exhibit one or more characteristics of a hazardous waste and require appropriate analysis to determine specific disposal requirements. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Not regulated.

15. Regulatory Information

----- \ Chemical Inventory Status - Part 1 \ -----				
Ingredient	TSCA	EC	Japan	Australia
Sulfanilic Acid (121-57-3)	Yes	Yes	Yes	Yes
----- \ Chemical Inventory Status - Part 2 \ -----				
-Canada-				
Ingredient	Korea	DSL	NDSL	Phil.
Sulfanilic Acid (121-57-3)	Yes	Yes	No	Yes

----- \Federal, State & International Regulations - Part 1\ -----				
	-SARA 302-	-----SARA 313-----		
Ingredient	RQ	TPQ	List	Chemical Catg.
Sulfanilic Acid (121-57-3)	No	No	No	No

----- \Federal, State & International Regulations - Part 2\ -----				
	-RCRA-	-TSCA-		
Ingredient	CERCLA	261.33	8(d)	
Sulfanilic Acid (121-57-3)	No	No	No	

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No
 SARA 311/312: Acute: Yes Chronic: No Fire: No Pressure: No
 Reactivity: No (Pure / Solid)

Australian Hazchem Code: None allocated.

Poison Schedule: None allocated.

WHMIS:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

16. Other Information

NFPA Ratings: Health: 1 Flammability: 1 Reactivity: 0

Label Hazard Warning:

CAUTION! MAY CAUSE IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT.

Label Precautions:

Avoid contact with eyes, skin and clothing.

Wash thoroughly after handling.

Avoid breathing dust.

Label First Aid:

In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. If inhaled, remove to fresh air. Get medical attention for any breathing difficulty. If swallowed, induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person.

Product Use:

Laboratory Reagent and Consumer Hobby

Revision Information:

No Changes.

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