# 1-Amino-2-Naphthol-4-Sulfonic Acid Solution for Silica

## Safety Data Sheet

**According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations**

**Date of issue: 12/11/2013**  
**Version: 1.0**

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

<table>
<thead>
<tr>
<th>Product form</th>
<th>Mixture</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product name</td>
<td>1-Amino-2-Naphthol-4-Sulfonic Acid Solution for Silica</td>
</tr>
<tr>
<td>Product code</td>
<td>LC10890</td>
</tr>
</tbody>
</table>

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

**Use of the substance/mixture:** For laboratory and manufacturing use only.

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

**LabChem Inc**  
Jackson's Pointe Commerce Park Building 1000, 1010 Jackson's Pointe Court  
Zelienople, PA 16063 - USA  
T 412-826-5230 - F 724-473-0647  
[info@labchem.com](mailto:info@labchem.com) - [www.labchem.com](http://www.labchem.com)

### 1.4. Emergency telephone number

**Emergency number:** CHEMTREC: 1-800-424-9300 or 011-703-527-3887

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**GHS-US classification**

- **Skin Irrit. 2** H315
- **Eye Irrit. 2A** H319

### 2.2. Label elements

**GHS-US labelling**

- **Hazard pictograms (GHS-US):** ![GHS07](image)
- **Signal word (GHS-US):** Warning
- **Hazard statements (GHS-US):**
  - H315 - Causes skin irritation
  - H319 - Causes serious eye irritation
- **Precautionary statements (GHS-US):**
  - P264 - Wash exposed skin thoroughly after handling
  - P280 - Wear protective gloves, eye protection
  - P302+P352 - IF ON SKIN: Wash with plenty of soap and water
  - P305+P351+P338 - IF in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
  - P332+P313 - IF skin irritation occurs: Get medical advice/attention
  - P337+P313 - IF eye irritation persists: Get medical advice/attention
  - P362 - Take off contaminated clothing

### 2.3. Other hazards

**Other hazards not contributing to the classification:** None.

### 2.4. Unknown acute toxicity (GHS-US)

**No data available**

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

**Not applicable**

**Full text of H-phrases: see section 16**

### 3.2. Mixture
1-Amino-2-Naphthol-4-Sulfonic Acid Solution for Silica
Safety Data Sheet

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>(CAS No) 7732-18-5</td>
<td>84.25</td>
<td>Not classified</td>
</tr>
<tr>
<td>Sodium Bisulfite (Sodium Hydrogen Sulfite)</td>
<td>(CAS No) 7631-90-5</td>
<td>15</td>
<td>Met. Corr. 1, H290, Acute Tox. 4 (Oral), H302</td>
</tr>
<tr>
<td>Sodium Sulfite, Anhydrous</td>
<td>(CAS No) 7757-83-7</td>
<td>0.5</td>
<td>Skin Irrit. 2, H315, Eye Irrit. 2A, H319</td>
</tr>
<tr>
<td>1-Amino-2-Naphthol-4-Sulfonic Acid</td>
<td>(CAS No) 116-63-2</td>
<td>0.25</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation: Assure fresh air breathing. Allow the victim to rest.

First-aid measures after skin contact: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact: 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.

First-aid measures after ingestion: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

Symptoms/injuries after skin contact: Causes skin irritation.

Symptoms/injuries after eye contact: Causes serious eye irritation.

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

Obtain medical assistance.

SECTION 5: Firefighting measures

5.1. Extinguishing media


Unsuitable extinguishing media: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

No additional information available.

5.3. Advice for firefighters

Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment: Safety glasses. Gloves.

Emergency procedures: Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment: Equip cleanup crew with proper protection.

Emergency procedures: Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.
SECTION 7: Handling and storage

7.1. Precautions for safe handling
Precautions for safe handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.

Hygiene measures: Wash exposed skin thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities
Storage conditions: Keep only in the original container in a cool, well ventilated place away from: Direct sunlight, incompatible materials. Keep container closed when not in use.


Incompatible products: Sources of ignition. Direct sunlight.

7.3. Specific end use(s)
No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Sodium Bisulfite (Sodium Hydrogen Sulfite) (7631-90-5)</th>
</tr>
</thead>
<tbody>
<tr>
<td>USA ACGIH</td>
</tr>
<tr>
<td>-----------</td>
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<tr>
<td></td>
</tr>
</tbody>
</table>

8.2. Exposure controls

Appropriate engineering controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide adequate general and local exhaust ventilation.

Personal protective equipment: Avoid all unnecessary exposure.

Hand protection: Wear protective gloves.

Eye protection: Chemical goggles or safety glasses.

Skin and body protection: Wear suitable protective clothing.

Respiratory protection: Wear appropriate mask.

Other information: Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid

Colour: light brown.

Odour: characteristic.

Odour threshold: No data available

pH: No data available

Relative evaporation rate (butylacetate=1): No data available

Melting point: No data available

Freezing point: No data available

Boiling point: No data available

Flash point: No data available

Self ignition temperature: No data available

Decomposition temperature: No data available

Flammability (solid, gas): No data available

Vapour pressure: No data available

Relative vapour density at 20 °C: No data available

Relative density: No data available

Solubility: Soluble in water.

Log Pow: No data available

Log Kow: No data available

Viscosity, kinematic: No data available

Viscosity, dynamic: No data available

Explosive properties: No data available

Oxidising properties: No data available
Explosive limits : No data available

9.2. **Other information**
No additional information available

**SECTION 10: Stability and reactivity**

10.1. **Reactivity**
No additional information available

10.2. **Chemical stability**
Unstable on exposure to light.

10.3. **Possibility of hazardous reactions**
Not established.

10.4. **Conditions to avoid**
Direct sunlight. Extremely high or low temperatures.

10.5. **Incompatible materials**
Strong acids. Strong oxidizers.

10.6. **Hazardous decomposition products**
Sulfur compounds. Carbon monoxide. Carbon dioxide.

**SECTION 11: Toxicological information**

11.1. **Information on toxicological effects**

Acute toxicity : Not classified

<table>
<thead>
<tr>
<th></th>
<th>1-Amino-2-Naphthol-4-Sulfonic Acid Solution for Silica</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>12331 mg/kg</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Sodium Bisulfite (Sodium Hydrogen Sulfite) (7631-90-5)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>1420 - 1630 mg/kg (Rat)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Water (7732-18-5)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>≥ 90000 mg/kg</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Sodium Sulfite, Anhydrous (7757-83-7)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>2610 mg/kg</td>
</tr>
<tr>
<td>LC50 inhalation rat (mg/l)</td>
<td>&gt; 5.5 mg/l/4h</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation : Causes skin irritation.
Serious eye damage/irritation : Causes serious eye irritation.
Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified

<table>
<thead>
<tr>
<th></th>
<th>Sodium Bisulfite (Sodium Hydrogen Sulfite) (7631-90-5)</th>
</tr>
</thead>
<tbody>
<tr>
<td>IARC group</td>
<td>3 - Not classifiable</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Sodium Sulfite, Anhydrous (7757-83-7)</th>
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</thead>
<tbody>
<tr>
<td>IARC group</td>
<td>3 - Not classifiable</td>
</tr>
</tbody>
</table>

Reproductive toxicity : Not classified
Specific target organ toxicity (single exposure) : Not classified
Specific target organ toxicity (repeated exposure) : Not classified
Aspiration hazard : Not classified
Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.
Symptoms/injuries after skin contact : Causes skin irritation.
Symptoms/injuries after eye contact : Causes serious eye irritation.
### SECTION 12: Ecological information

#### 12.1. Toxicity

<table>
<thead>
<tr>
<th>Compound</th>
<th>LC50</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Bisulfite (Sodium Hydrogen Sulfite) (7631-90-5)</td>
<td>220 mg/l (50 h; Pisces)</td>
<td></td>
</tr>
<tr>
<td>LC50 other aquatic organisms 1</td>
<td>81 mg/l (50 h; Daphnia magna)</td>
<td></td>
</tr>
<tr>
<td>LC50 fish 2</td>
<td>90 - 430 mg/l (96 h; Salmo gairdneri (Oncorhynchus mykiss))</td>
<td></td>
</tr>
<tr>
<td>TLM fish 1</td>
<td>240 ppm (96 h; Gambusia affinis)</td>
<td></td>
</tr>
<tr>
<td>Threshold limit other aquatic organisms 1</td>
<td>81 mg/l (50 h; Daphnia magna)</td>
<td></td>
</tr>
<tr>
<td>Threshold limit other aquatic organisms 2</td>
<td>&lt; 8.2 mg/l (24 h; Pseudomonas fluorescens)</td>
<td></td>
</tr>
<tr>
<td>Threshold limit algae 1</td>
<td>8.2 mg/l (0.5 h; Chlorophyta; Photosynthesis)</td>
<td></td>
</tr>
<tr>
<td>Threshold limit algae 2</td>
<td>8.2 mg/l (0.5 h; Scenedesmus quadricauda; Photosynthesis)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Compound</th>
<th>LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Sulfite, Anhydrous (7757-83-7)</td>
<td>220 - 460 mg/l</td>
</tr>
</tbody>
</table>

#### 12.2. Persistence and degradability

<table>
<thead>
<tr>
<th>Compound</th>
<th>Persistence and degradability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Bisulfite (Sodium Hydrogen Sulfite) (7631-90-5)</td>
<td>Not established.</td>
</tr>
<tr>
<td>ThOD</td>
<td>0.154 g O²/g substance</td>
</tr>
<tr>
<td>Water (7732-18-5)</td>
<td>Not established.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Compound</th>
<th>Persistence and degradability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Sulfite, Anhydrous (7757-83-7)</td>
<td>Not established.</td>
</tr>
</tbody>
</table>

#### 12.3. Bioaccumulative potential

<table>
<thead>
<tr>
<th>Compound</th>
<th>Bioaccumulative potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Bisulfite (Sodium Hydrogen Sulfite) (7631-90-5)</td>
<td>Not established.</td>
</tr>
<tr>
<td>Water (7732-18-5)</td>
<td>Not established.</td>
</tr>
<tr>
<td>Sodium Sulfite, Anhydrous (7757-83-7)</td>
<td>Not established.</td>
</tr>
</tbody>
</table>

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

Other information : Avoid release to the environment.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

| Waste disposal recommendations | Dispose in a safe manner in accordance with local/national regulations. |
| Ecology - waste materials | Avoid release to the environment. |

### SECTION 14: Transport information

In accordance with DOT

No dangerous good in sense of transport regulations
Additional information
Other information : No supplementary information available.

ADR
Transport document description :

Transport by sea
No additional information available

Air transport
No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

1-Amino-2-Naphthol-4-Sulfonic Acid (116-63-2)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Sodium Bisulfite (Sodium Hydrogen Sulfite) (7631-90-5)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
RQ (Reportable quantity, section 304 of EPA's List of Lists) : 5000 lb

Water (7732-18-5)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Sodium Sulfite, Anhydrous (7757-83-7)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

1-Amino-2-Naphthol-4-Sulfonic Acid Solution for Silica
WHMIS Classification Class D Division 2 Subdivision B - Toxic material causing other toxic effects

1-Amino-2-Naphthol-4-Sulfonic Acid (116-63-2)
WHMIS Classification Uncontrolled product according to WHMIS classification criteria

Sodium Bisulfite (Sodium Hydrogen Sulfite) (7631-90-5)
Listed on the Canadian DSL (Domestic Substances List) inventory.
WHMIS Classification Uncontrolled product according to WHMIS classification criteria

Water (7732-18-5)
WHMIS Classification Uncontrolled product according to WHMIS classification criteria

Sodium Sulfite, Anhydrous (7757-83-7)
Listed on the Canadian DSL (Domestic Substances List) inventory.
WHMIS Classification Class D Division 2 Subdivision B - Toxic material causing other toxic effects

EU-Regulations
No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification according to Directive 67/548/EEC or 1999/45/EC
Not classified

15.2. National regulations
1-Amino-2-Naphthol-4-Sulfonic Acid Solution for Silica
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

<table>
<thead>
<tr>
<th>Sodium Bisulfite (Sodium Hydrogen Sulfite) (7631-90-5)</th>
<th>Listed on the Canadian Ingredient Disclosure List</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Sulfite, Anhydrous (7757-83-7)</td>
<td>Not listed on the Canadian Ingredient Disclosure List</td>
</tr>
</tbody>
</table>

15.3. US State regulations
No additional information available

**SECTION 16: Other information**

Other information : None.

Full text of H-phrases: see section 16:

<table>
<thead>
<tr>
<th>Acute Tox. 4 (Oral)</th>
<th>Acute toxicity (oral), Category 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye Irrit. 2A</td>
<td>Serious eye damage/eye irritation, Category 2A</td>
</tr>
<tr>
<td>Met. Corr. 1</td>
<td>Corrosive to metals, Category 1</td>
</tr>
<tr>
<td>Skin Irrit. 2</td>
<td>Skin corrosion/irritation, Category 2</td>
</tr>
<tr>
<td>H290</td>
<td>May be corrosive to metals</td>
</tr>
<tr>
<td>H302</td>
<td>Harmful if swallowed</td>
</tr>
<tr>
<td>H315</td>
<td>Causes skin irritation</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation</td>
</tr>
</tbody>
</table>

NFPA health hazard : 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.

NFPA fire hazard : 0 - Materials that will not burn.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.

**HMIS III Rating**

Health : 1 Slight Hazard - Irritation or minor reversible injury possible

Flammability : 0 Minimal Hazard

Physical : 0 Minimal Hazard

Personal Protection : B

SDS US (GHS HazCom 2012)

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