 SECTION 1: Identification

1.1. Identification

Product form: Mixture
Product name: 4-(Methylamino) Phenol Sulfate Solution
Product code: LC16840

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 - www.labchem.com

1.4. Emergency telephone number

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

 SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification
Skin sensitization Category 1  H317
Full text of H statements: see section 16

2.2. Label elements

GHS-US labeling
Hazard pictograms (GHS-US): |

Signal word (GHS-US): Warning
Hazard statements (GHS-US): H317 - May cause an allergic skin reaction
Precautionary statements (GHS-US): P261 - Avoid breathing mist, vapors, spray
Contaminated work clothing must not be allowed out of the workplace
P280 - Wear protective gloves, eye protection
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention
P362 + P364 - Take off contaminated clothing and wash it before reuse
P501 - Dispose of contents/container to comply with local, state and federal regulations

2.3. Other hazards

Other hazards not contributing to the classification: None under normal conditions.

2.4. Unknown acute toxicity (GHS US)

Not applicable

 SECTION 3: Composition/Information on ingredients

3.1. Substance

Not applicable

3.2. Mixture
4-(Methylamino) Phenol Sulfate Solution
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

<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>79.8</td>
<td>Not classified</td>
</tr>
<tr>
<td>Sodium Bisulfite (Sodium Hydrogen Sulfite)</td>
<td>(CAS No) 7631-90-5</td>
<td>20</td>
<td>Met. Corr. 1, H290</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Acute Tox. 4 (Oral), H302</td>
</tr>
<tr>
<td>4-(Methylamino)phenol Sulfate</td>
<td>(CAS No) 55-55-0</td>
<td>0.2</td>
<td>Acute Tox. 4 (Oral), H302</td>
</tr>
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<td></td>
<td></td>
<td></td>
<td>Skin Sens. 1, H317</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>STOT RE 2, H373</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Aquatic Acute 1, H400</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Aquatic Chronic 1, H410</td>
</tr>
</tbody>
</table>

Full text of hazard classes and H-statements : see section 16

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: Allow victim to breathe fresh air. Allow the victim to rest.

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

First-aid measures after eye contact: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.

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 inhalation: May cause an allergic skin reaction.

Symptoms/injuries after skin contact: May cause an allergic skin reaction.


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. Prevent fire-fighting water from entering 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 vapor. Avoid breathing mist, vapors, spray.

Hygiene measures: Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Keep container closed when not in use.


Incompatible materials: Sources of ignition. Direct sunlight.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| 4-(Methylamino)phenol Sulfate (55-55-0) | Not applicable |
| Sodium Bisulfite (Sodium Hydrogen Sulfite) (7631-90-5) | 
ACGIH | ACGIH TWA (mg/m³) | 5 mg/m³ (Sodium bisulfite; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value) |
| NIOSH | NIOSH REL (TWA) (mg/m³) | 5 mg/m³ |
| Water (7732-18-5) | Not applicable |

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. Ensure good ventilation of the work station.

Personal protective equipment: Safety glasses. Gloves.

Hand protection: Wear protective gloves.

Eye protection: Chemical goggles or safety glasses.

Respiratory protection: Respiratory protection not required in normal conditions.

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 |
| Color | Yellow |
| Odor | characteristic |
| Odor threshold | No data available |
| pH | No data available |
| Melting point | No data available |
| Freezing point | No data available |
| Boiling point | No data available |
| Flash point | No data available |
| Relative evaporation rate (butyl acetate=1) | No data available |
| Flammability (solid, gas) | Non flammable. |
| Vapor pressure | No data available |
| Relative vapor density at 20 °C | No data available |
| Relative density | No data available |
4-(Methylamino) Phenol Sulfate Solution
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solubility</td>
<td>Soluble in water</td>
</tr>
<tr>
<td>Log Pow</td>
<td>No data available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosion limits</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No data available</td>
</tr>
</tbody>
</table>

9.2. Other information
No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity
No additional information available

10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions
Not established.

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

10.5. Incompatible materials

10.6. Hazardous decomposition products

SECTION 11: Toxicological information

11.1. Information on toxicological effects

| Likely routes of exposure                      | Inhalation; Skin and eye contact |
| Acute toxicity                                 | Not classified                    |

4-(Methylamino)phenol Sulfate (55-55-0)

<table>
<thead>
<tr>
<th>Test</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATE US (oral)</td>
<td>500.000 mg/kg body weight</td>
</tr>
</tbody>
</table>

Sodium Bisulfite (Sodium Hydrogen Sulfite) (7631-90-5)

<table>
<thead>
<tr>
<th>Test</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>2150 - 2610 mg/kg body weight (Rat; Equivalent or similar to OECD 401; Read-across; 2746 mg/kg bodyweight; Rat; Equivalent or similar to OECD 401; Read-across)</td>
</tr>
<tr>
<td>LD50 dermal rat</td>
<td>&gt; 2000 mg/kg body weight (Rat; Read-across; OECD 402: Acute Dermal Toxicity)</td>
</tr>
<tr>
<td>ATE US (oral)</td>
<td>1420.000 mg/kg body weight</td>
</tr>
</tbody>
</table>

Water (7732-18-5)

<table>
<thead>
<tr>
<th>Test</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>≥ 90000 mg/kg</td>
</tr>
<tr>
<td>ATE US (oral)</td>
<td>90000.000 mg/kg body weight</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Test</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin corrosion/irritation</td>
<td>Not classified</td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td>Not classified</td>
</tr>
<tr>
<td>Respiratory or skin sensitization</td>
<td>May cause an allergic skin reaction.</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

Sodium Bisulfite (Sodium Hydrogen Sulfite) (7631-90-5)

<table>
<thead>
<tr>
<th>Test</th>
<th>Value</th>
</tr>
</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 inhalation: May cause an allergic skin reaction.

Symptoms/injuries after skin contact: May cause an allergic skin reaction.


SECTION 12: Ecological information

12.1. Toxicity

Sodium Bisulfite (Sodium Hydrogen Sulfite) (7631-90-5)

LC50 fish 1: 316 mg/l (LC50; DIN 38412-15; 96 h; Leuciscus idus; Static system; Fresh water; Read-across)

EC50 Daphnia 1: 89 mg/l (EC50; EU Method; 48 h; Daphnia magna; Static system; Fresh water; Read-across)

Threshold limit algae 1: 43.9 mg/l (EC50; Equivalent or similar to OECD 201; 96 h; Desmodesmus subspicatus; Static system; Fresh water; Read-across)

12.2. Persistence and degradability

4-(Methylamino) Phenol Sulfate Solution

Persistence and degradability: Not established.

Sodium Bisulfite (Sodium Hydrogen Sulfite) (7631-90-5)

Persistence and degradability: No test data available. No test data on mobility of the substance available. Not established.

ThOD: 0.154 g O₂/g substance

Water (7732-18-5)

Persistence and degradability: Not established.

12.3. Bioaccumulative potential

4-(Methylamino) Phenol Sulfate Solution

Bioaccumulative potential: Not established.

Sodium Bisulfite (Sodium Hydrogen Sulfite) (7631-90-5)

Bioaccumulative potential: No bioaccumulation data available. Not established.

Water (7732-18-5)

Bioaccumulative potential: Not established.

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Effect on the global warming: No known effects from this product.

GWPmix comment: No known effects from this product.

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. Dispose of contents/container to comply with local, state and federal regulations.

Ecology - waste materials: Avoid release to the environment.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not regulated
SECTION 15: Regulatory information

15.1. US Federal regulations

4-(Methylamino) Phenol Sulfate Solution

SARA Section 311/312 Hazard Classes | Delayed (chronic) health hazard
--- | ---
All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

Sodium Bisulfite (Sodium Hydrogen Sulfite) (7631-90-5)

RQ (Reportable quantity, section 304 of EPA's List of Lists) | 5000 lb
--- | ---

15.2. International regulations

CANADA

4-(Methylamino) Phenol Sulfate Solution

WHMIS Classification | Class D Division 2 Subdivision A - Very toxic material causing other toxic effects
--- | ---

Sodium Bisulfite (Sodium Hydrogen Sulfite) (7631-90-5)

Listed on the Canadian DSL (Domestic Substances List)

WHMIS Classification | Uncontrolled product according to WHMIS classification criteria
--- | ---

Water (7732-18-5)

WHMIS Classification | Uncontrolled product according to WHMIS classification criteria
--- | ---

EU-Regulations
No additional information available

National regulations

Sodium Bisulfite (Sodium Hydrogen Sulfite) (7631-90-5)

Listed on the Canadian IDL (Ingredient Disclosure List)

15.3. US State regulations
No additional information available

SECTION 16: Other information

Revision date | 09/02/2016
--- | ---
Other information | None.
--- | ---

Full text of H-phrases: see section 16:

H290 | May be corrosive to metals
H302 | Harmful if swallowed
H317 | May cause an allergic skin reaction
H373 | May cause damage to organs through prolonged or repeated exposure
H400 | Very toxic to aquatic life
H410 | Very toxic to aquatic life with long lasting effects

NFPA health hazard | 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention 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 : 2 Moderate Hazard - Temporary or minor injury may occur
Flammability : 0 Minimal Hazard - Materials that will not burn
Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.
Personal protection : B
              B - Safety glasses, Gloves

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