Section 1 - Chemical Product and Company Identification

MSDS Name: 4-(Methylamino)phenol Sulfate Solution

Catalog Numbers:
LC16840

Synonyms: None

Company Identification:
LabChem Inc
200 William Pitt Way
Pittsburgh, PA 15238

Company Phone Number:
(412) 826-5230

Emergency Phone Number:
(800) 424-9300

CHEMTREC Phone Number:
(800) 424-9300

Section 2 – Composition, Information on Ingredients

<table>
<thead>
<tr>
<th>CAS#</th>
<th>Chemical Name</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>55-55-0</td>
<td>4-Methylaminophenol Sulfate</td>
<td>0.2</td>
</tr>
<tr>
<td>7631-90-5</td>
<td>Sodium Bisulfite</td>
<td>20</td>
</tr>
<tr>
<td>7732-18-5</td>
<td>Water</td>
<td>balance</td>
</tr>
</tbody>
</table>

Section 3 - Hazards Identification

Emergency Overview

**Appearance:** Clear, colorless to lt. tan solution

**Warning!** Harmful if swallowed. Causes eye, skin, and respiratory tract irritation. May cause allergic skin reaction. May cause blood abnormalities. Contact with acids liberates toxic gas.

**Target Organs:** Blood, kidneys, spleen, skin, respiratory system

Potential Health Effects

**Eye:**
Causes eye irritation.

**Skin:**
Causes skin irritation. May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material. May be harmful if absorbed through the skin.

**Ingestion:**
Harmful if swallowed. May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May cause blood abnormalities. Sulfite compounds may cause a severe allergic reaction in sensitive
individuals and some asthmatics. Groups of 5 male rats were fed 1.0 or 0.1% of p-methylaminophenol sulfate in the diet for 11 days. Abnormalities observed in the high-dose group included a slight brown discoloration of the tail, decreased hemoglobin & hematocrit, changes in red blood cell morphology, & an increase in absolute & relative spleen weights. Gross & histopathologic changes included enlarged spleens & splenic congestion. No treatment-related effects were observed at the low-dose level. (Eastman Kodak)

Inhalation:
Causes respiratory tract irritation. May be harmful if inhaled. May cause respiratory sensitization.

Chronic:
Repeated or prolonged exposure may cause allergic reactions in sensitive individuals. Groups of 20 male & 20 female rats were administered 61-66 doses (gavage) of 30, 100 or 300 mg/kg of Elon (p-methylaminophenol sulfate) over a period of 91-94 days. Except for brown urine & decreased activity, death occurred without prior signs of toxicity in 20 animals at the high dose-level & 7 animals in the intermediate dose group. Deaths were associated with necrosis of the renal tubular epithelial cells. Abnormalities in the high & intermediate dose groups included degeneration of hemoglobin in circulating erythrocytes, hemolytic anemia, discolored & enlarged spleens, & hemoglobinuric nephrosis. Minor kidney, spleen and red blood cell effects were also observed in some of the low-dose animals. (Eastman Kodak)

Section 4 - First Aid Measures

Eyes:
Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin:
Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Ingestion:
Call a poison control center. If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical aid.

Inhalation:
Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid. Do NOT use mouth-to-mouth resuscitation.

Notes to Physician:
Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information:
As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media:
Use water spray, dry chemical, carbon dioxide, or chemical foam.

Autoignition Temperature:
Not available
Material Safety Data Sheet
4-(Methylamino)phenol Sulfate Solution

Flash Point:
Not available

NFPA Rating:
Not available

Explosion Limits:
Lower: Not available  Upper: Not available

Section 6 - Accidental Release Measures

General Information:
Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:
Absorb material with vermiculite, sweep up, and place into a suitable disposal container. Provide ventilation.

Section 7 - Handling and Storage

Handling:
Wash thoroughly after handling. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed.

Storage:
Store in a cool, dry place. Store in a tightly closed container. Keep away from strong acids. Do not store in aluminum containers.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:
Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>NIOSH</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-Methylaminophenol sulfate</td>
<td>none listed</td>
<td>none listed</td>
<td>none listed</td>
</tr>
<tr>
<td>Water</td>
<td>none listed</td>
<td>none listed</td>
<td>none listed</td>
</tr>
<tr>
<td>Sodium bisulfite</td>
<td>5 mg/m3 TWA</td>
<td>5 mg/m3 TWA</td>
<td>5 mg/m3 TWA</td>
</tr>
</tbody>
</table>

OSHA Vacated PELs:
Sodium bisulfite: 5 mg/m3 TWA

Personal Protective Equipment

Eyes:
Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA’s eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin:
Wear appropriate gloves to prevent skin exposure.

Clothing:
Wear appropriate protective clothing to prevent skin exposure.
Respirators:
Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149.
Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Liquid
Color: Colorless to lt. tan
Odor: Sulfurous odor
pH: Not available
Vapor Pressure: Not available
Vapor Density: Not available
Evaporation Rate: Not available
Viscosity: Not available
Boiling Point: Not available
Freezing/Melting Point: Not available
Decomposition Temperature: Not available
Solubility in water: Soluble
Specific Gravity/Density: 1.0
Molecular Formula: Not applicable
Molecular Weight: Not applicable

Section 10 - Stability and Reactivity

Chemical Stability:
Oxidizes when exposed to air. Contact with acid liberates gas. Moisture sensitive. May discolor on exposure to air and light.

Conditions to Avoid:
Light, excess heat, incompatible materials, exposure to air, temperatures above 150°C.

Incompatibilities with Other Materials:
Strong oxidizing agents, acids, aluminum.

Hazardous Decomposition Products:
Nitrogen oxides, carbon monoxide, oxides of sulfur, carbon dioxide, toxic fumes of sodium oxide.

Hazardous Polymerization:
Has not been reported.

Section 11 - Toxicological Information

RTECS:
CAS# 55-55-0: SL8650000
CAS# 7631-90-5: VZ2000000
CAS# 7732-18-5: ZC0110000

LD50/LC50:
CAS# 55-55-0:
Dermal, guinea pig: LD50 = >1 gm/kg;
Oral, mouse: LD50 = 565 mg/kg
Material Safety Data Sheet
4-(Methylamino)phenol Sulfate Solution

CAS# 7631-90-5:
Oral, rat: LD50 = 2 gm/kg
CAS# 7732-18-5:
Oral, rat: LD50 = >90 ml/kg

Carcinogenicity:
CAS# 55-55-0: Not listed by ACGIH, IARC, NTP, or CA Prop 65.
CAS# 7631-90-5: Not listed by ACGIH, IARC, NTP, or CA Prop 65.
CAS# 7732-18-5: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology:
Two cases of occupational asthma in laundry workers exposed to sodium metabisulfite were reported. Sodium metabisulfite may be considered to be the anhydride of sodium bisulfite and is the chief constituent of commercial dry sodium bisulfite.

Teratogenicity:
No information found

Reproductive:
See actual entry in RTECS for complete information.

Mutagenicity:
No information found

Neurotoxicity:
No information found

Section 12 - Ecological Information
No information found

Section 13 - Disposal Considerations
Dispose of in accordance with Federal, State, and local regulations.

Section 14 - Transport Information

US DOT
Shipping Name: Bisulfites, aqueous solution, n.o.s.
Hazard Class: 8
UN Number: UN2693
Packing Group: III

Section 15 - Regulatory Information

US Federal
TSCA:
CAS# 55-55-0 is listed on the TSCA inventory.
CAS# 7631-90-5 is listed on the TSCA inventory.
CAS# 7732-18-5 is listed on the TSCA inventory.

SARA Reportable Quantities (RQ):
CAS# 7631-90-5: 5000 lb. final RQ; 2270 kg final RQ
Material Safety Data Sheet
4-(Methylamino)phenol Sulfate Solution

CERCLA/SARA Section 313:
Not reportable under Section 313.

OSHA - Highly Hazardous:
None of the chemicals in this product are considered highly hazardous by OSHA.

US State
State Right to Know:
CAS# 55-55-0 is not present on state lists from California, Pennsylvania, Minnesota, Massachusetts, Florida, or New Jersey.
CAS# 7631-90-5 can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Minnesota, Massachusetts.
CAS# 7732-18-5 is not present on state lists from California, Pennsylvania, Minnesota, Massachusetts, Florida, or New Jersey.

California Regulations:
None.

European/International Regulations
Canadian DSL/NDSL:
CAS# 55-55-0 is listed on Canada's DSL List.
CAS# 7631-90-5 is listed on Canada's DSL List.
CAS# 7732-18-5 is listed on Canada's DSL List.

Canada Ingredient Disclosure List:
CAS# 55-55-0 is not listed on the Canadian Ingredient Disclosure List.
CAS# 7631-90-5 is listed on the Canadian Ingredient Disclosure List.
CAS# 7732-18-5 is not listed on the Canadian Ingredient Disclosure List.

Section 16 - Other Information

MSDS Creation Date: November 26, 2007
Revision Date: November 28, 2007

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