Material Safety Data Sheet

Section 1. Chemical Product and Company Identification

Product Name
Formalin Solution 10% Neutral Buff. pH 7.0

Product Code
28600

Manufacturer's Name
StatLab Medical Products, Inc.

Address (Number, Street, City, State, and ZIP Code)
407 Interchange st.

Emergency Telephone Number
800-424-9300

Telephone Number for Information
800-442-3573 x 2

Date Prepared
10/14/2003 (rev 10/20/05)

Signature of Preparer (optional)

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Section 2. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>Other Limits Recommended</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Formaldehyde</td>
<td>50-00-0</td>
<td>0.75 ppm</td>
<td>C 0.3 mg/m³</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td>Methyl Alcohol</td>
<td>67-56-1</td>
<td>200 ppm</td>
<td>250 ppm</td>
<td></td>
<td>1-1.5</td>
</tr>
<tr>
<td>Sodium Phosphate Monobasic</td>
<td>10049-21-5</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
<td>&lt;1</td>
</tr>
<tr>
<td>Sodium Phosphate Dibasic</td>
<td>7558-79-4</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
<td>&lt;1</td>
</tr>
<tr>
<td>Water, Deionized</td>
<td>7732-18-5</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
<td>Balance</td>
</tr>
</tbody>
</table>

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Section 3. Hazards Identification

Emergency Overview
Contains Formaldehyde, a suspected carcinogen. Irritating to the eyes, respiratory system and skin. May cause sensitization by inhalation or skin contact. May be fatal if swallowed. If ingested, dilute with water, induce vomiting then call a physician. Wash areas of contact with water. If inhaled, remove to fresh air.

Potential Health Effects

Target Organs
Eyes, skin, respiratory system.

Eye
Causes irritation, redness and pain.

Skin
May cause irritation, redness and pain. Frequent or prolonged exposure may cause hypersensitivity leading to contact dermatitis.

Ingestion
May cause severe abdominal pain, vomiting, headache and diarrhea.

Inhalation
Causes irritation of respiratory tract. Symptoms may include sore throat, coughing and shortness of breath.

Chronic/Carcinogenicity
IARC-Formaldehyde is probably carcinogenic. NTP-Formaldehyde is reasonably anticipated to be a carcinogen. OSHA-Yes (Formaldehyde)

Teratology
Mutation data cited in "Registry of Toxic Effects of Chemical Substances" on Formaldehyde.

Reproduction
Reproductive effects cited in "Registry of Toxic Effects of Chemical Substances" on Formaldehyde.

Mutagenicity

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Emergency telephone number
800-424-9300

Statlab Medical Products, Inc.
**Material Safety Data Sheet**

**Product Name**  
Formalin Solution 10% Neutral Buff. pH 7.0  
28600

### Section 4. First Aid Measures

<table>
<thead>
<tr>
<th>Eye</th>
<th>Irrigate immediately with large quantity of water for at least 15 minutes.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin</td>
<td>Flush with water for at least 15 minutes.</td>
</tr>
</tbody>
</table>

**Ingestion**  
Dilute immediately with water or milk. Induce vomiting.

**Call a physician.**

**Inhalation**  
Remove to fresh air. Give artificial respiration if necessary.

**All Other Means of Exposure**  
CONTACT POISON CONTROL CENTER IMMEDIATELY. Be prepared to provide hazardous ingredient information from Section 2.

### Section 5. Fire Fighting Measures

<table>
<thead>
<tr>
<th>Flammable Properties</th>
<th>Flash Point</th>
<th>N/A</th>
<th>Method</th>
<th>N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammable Limits</td>
<td>Lower</td>
<td>N/A</td>
<td>Upper</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**Autoignition Temperature**  

**Hazardous Combustion Products**  

**Extinguishing Media**  
Use any means suitable for extinguishing the surrounding fire. (Water spray, dry chemical, alcohol foam, or carbon dioxide.)

**Fire & Explosion Hazards**  
Not considered to be a fire or explosion hazard.

**Fire Fighting Instructions**  
Use normal procedures/instructions.

**Fire Fighting Equipment**  
Use protective clothing and breathing equipment appropriate for the surrounding fire.

### Section 6. Accidental Release Measures

Ventilate area of leak or spill. Cover spill with 1:1:1 mixture of Sodium Carbonate, clay cat litter and sand. Scoop into container and transport to fume hood. Add the mixture to cold water (about 10 mL water for each 1 mL of Formaldehyde solution). Slowly add household bleach (2.5 mL bleach for each 1 mL of Formaldehyde solution). Allow to stand for 20 minutes. Decant liquid to drain. Flush with water. Treat solid residue as normal refuse.

### Section 7. Handling and Storage

**Handling/Storage**  
As with all chemicals, wash hands thoroughly after handling.

Avoid contact with eyes. Protect from freezing and physical damage. Use with adequate ventilation. Store at controlled room temperature, 15-30°C.

SAFETY STORAGE CODE: HEALTH

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Product Code: 28600

Section 8. Exposure Controls, Personal Protection

Engineering Controls
Use of a fume hood is recommended.

Respiratory Protection
If the exposure level is exceeded, wear a full facepiece respirator equipped with a formaldehyde cartridge.

Skin Protection
Gloves

Eye Protection
Safety glasses or goggles.

Section 9. Physical and Chemical Properties

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Section 9. Physical and Chemical Properties

Boiling Point
approx. 100°C

Specific Gravity (H2O = 1)
1.02

Vapor Pressure (mm Hg)
N/A

Melting Point
approx. 0°C

Vapor Density (AIR = 1)
Evaporation rate

Butyl Acetate = 1

Solubility in Water
Infinite

Physical State

Appearance and Odor
Clear, colorless/pungent odor

Other
pH: 7.0

Section 10. Stability and Reactivity

Chemical Stability
Stable under normal conditions of use and storage.

Incompatibility
Strong oxidizers, strong alkalies, acids, phenol, urea.

Hazardous Decomposition Products
May form Carbon Dioxide, Carbon Monoxide and Formaldehyde when heated to decomposition.

Hazardous Polymerization
Nonhazardous polymerization may occur, forming paraformaldehyde, a white solid.

Section 11. Toxological Information

LD₅₀, Oral, Rat: (Formaldehyde) 100 mg/kg; LD₅₀, Oral, Rat: (Sodium Phosphate Diabasic) 17,000 mg/kg; Details of toxic effects not reported other than lethal dose value.

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Statlab Medical Products, Inc.
Section 12. Ecological Information

Ecotoxicological Information: Formaldehyde is expected to be slightly toxic to aquatic life.

Chemical Fate Information: Formaldehyde is expected to readily biodegrade when released into water.

Section 13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be disposed of in a RCRA approved waste disposal facility. Dispose of in accordance with local, state, and federal regulations.

Section 14. Transport Information

GROUND SHIPMENTS: Not regulated
AIR SHIPMENTS: Aviation Regulated Liquid n.o.s. (formaldehyde), 9, UN3334

NOTE: It is ultimately the shippers responsibility to make hazard class determination based on their best information available.

Section 15. Regulatory Information

OSHA Status: This item meets the OSHA Hazard Communication Standard (29 CFR 1910.1200) definition of a hazardous material.
TSCA Status: All components of this solution are listed on the TSCA Inventory.
CERCLA Reportable Quantity: Formaldehyde, RQ 100 pounds.
SARA TITLE III:
Section 302 Extremely Hazardous Substances: Formaldehyde TPQ 500 pounds
Section 311 Hazardous Categories: No
Section 312 Toxic Chemicals: Formaldehyde, 0.1% De Minimus concentration
RCRA Status: No
California Proposition 65: No listed (Formaldehyde gas is listed)
Florida: Formaldehyde is listed on the state Toxic Substances List.
Pennsylvania: Formaldehyde is listed as an environmental and special hazard on the Hazardous Substances List.

Section 16. Other Information

NFPA Ratings: Health: 2 Flammability: 2 Reactivity: 0 Special Notice Key: None
HMIS® Ratings: Health: 4 Flammability: 2 Reactivity: 0 Protective Equipment: C (protective eyewear and gloves)

When handled properly by qualified personnel, the product described herein does not present a significant health or safety hazard. Alteration to its characteristics by concentration, evaporation, addition of other substances, or other means may present hazards not specifically addressed herein and which must be evaluated by the user. The information furnished herein is believed to be accurate and represents the best data currently available to us. No warranty, expressed or implied, is made and STATLAB MEDICAL PRODUCTS, INC. assumes no legal responsibility or liability whatsoever resulting from its use.

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