CHEMSAFE™
MATERIAL SAFETY DATA SHEET

I. IDENTIFICATION

MANUFACTURER'S NAME

EMERGENCY TELEPHONE NO.

ADDRESS (Number, Street, City, State, and ZIP Code)

CHEMICAL NAME AND SYNONYMS

FORMALDEHYDE SOLUTION

TRADE NAME AND SYNONYMS

Formalin 37% Methanol Free

CHEMICAL FAMILY

Aqueous Formaldehyde Solution

FORMULA

HCHO

II. CHEMSAFE™ INSTRUCTIONAL CLASSIFICATION

Affix Appropriate ChemSafe™ Instructional Classification Label

*Refer to CHEMSAFE™ instructional booklets for data regarding the properties, appropriate safe use and storage, and emergency response for this class of substance.

III. HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>INGREDIENT NAME</th>
<th>%</th>
<th>TLV AND SOURCE (units)</th>
<th>INGREDIENT NAME</th>
<th>%</th>
<th>TLV AND SOURCE (units)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Formaldehyde</td>
<td>37</td>
<td>Ceiling 2 ppm</td>
<td>4.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

IV. PHYSICAL DATA

Boiling Point at 760 mm Hg: 210°F

Vapor Pressure (mm Hg at 35°C): 2.7

Vapor Density (Air = 1): 1.067

Solubility in Water (% by Weight): Complete

Appearance and Odor: Clear, colorless liquid, characteristic pungent odor

V. FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): System Test C.C. 185°F

Flammable Limits in Air (% by Volume): Lower (LFL) 7.0 Upper (UFL) 73.0

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

Fire Fighting Procedures: Wear self-contained breathing apparatus. Irritating gaseous concentrations may be evolved.

Fire and Explosion Hazards: Keep away from sparks, flame or other ignition sources.

VI. LOCATIONS USED AND STORED (Completed By User)

Locations Used

Locations Stored

While Springborn Regulatory Services, Inc. (SRS) believes that the data contained herein are factual and believes that the opinions expressed are those of qualified experts, the data are not to be taken as a warranty or representation for which SRS assumes legal responsibility. They are offered solely for your consideration, investigation and verification. Any use of this data and information must be determined by the user to be in accordance with applicable federal, state and local laws and regulations.

CHEMSAFE™ FORM 32

SPRINGBORN REGULATORY SERVICES, INC.

THIRTY SPRINGBORN CENTER

(Continued on reverse side)
### VII HEALTH HAZARD DATA

**Threshold Limit Value (TLV) and Source**
- C2: 2 ppm, C3: 5 mg/m³ TWA ACGID '82

**Effects of Overexposure**
- Inhalation: sharp pungent odor detectable at 0.8 ppm in air, irritating to nose and throat. Skin Exposure - reddening and hardening of skin, vesicle, dermatitis.

**Eye Exposure**
- Burning, weeping, liquid could cause corneal burns

**Emergency First Aid Procedures**
- Inhalation effects are transient, disappear on exposure to fresh air. Prolonged exposure can cause hypersensitivity. Skin exposure, wash with water. Eye exposure, flush with water for 15 min. Refer to doctor.

### VIII REACTIVITY DATA

<table>
<thead>
<tr>
<th>Unstable</th>
<th>Stable</th>
<th>Conditions to Avoid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Store above 70°F to avoid paraformaldehyde precipitation</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### IX SPILL OR LEAK PROCEDURES

**Procedures to Contain and Clean Up Leaks and Spills**
- For minor leaks or spills, flush to sanitary sewers with large quantities of water.

**Reporting Procedure**
- For major spills, evacuate area and collect wash water for incineration. Report in accordance with local, state, and federal regulations.

**Waste Disposal Method**
- Use commercial absorbing materials (e.g., Speed-Dri) and dispose of via landfill procedures consistent with local, state, and federal regulations.

### X PROTECTION INFORMATION

**Respiratory Protection (Specify Type)**
- US Bureau of Mines approved canister mask or self-contained breathing apparatus.

**Ventilation**
- Local vapor concentration below TLV
- N/A

**Other Protective Equipment and Clothing**
- Coveralls and rubber foot coverings.

**Other Precautions**
- Store above 70°F and below 120°F. Should be handled in completely closed equipment to minimize toxic and irritating vapors in air.

**Other**
- Do not ingest. Avoid skin and eye contact. Avoid exposure to vapors. Pouring or handling in open containers should be in forced draft hood.

### XII INFORMATION SUBMITTED BY

**Name**

**Company**

**Date**
- 2/83

**Sources**
- OSHA, NFPA

**Continuation/Notes**

---

**CHEMSAFE™ FORM 32**

**SPRINGBORN REGULATORY SERVICES INC.**

**ENFIELD, CONNECTICUT 06082**