

# Safety Data Sheet

## TRUMP'S FIXATIVE

### Section 1 - Chemical Product and Company Identification

**SDS Name:** Trump's Fixative

**Catalog Numbers:** SO-1037

**Company Identification:** Transene Company, Inc., DBA ROWLEY BIOCHEMICAL, Inc.  
10 ELECTRONICS AVENUE  
DANVERS, MA 01923

**For information, call:** 978-739-4883

**Emergency Number:** 800-424-9300

**For CHEMTREC assistance, call:** 800-424-9300

### Section 2 - Hazards Identification

#### GHS Classifications

H302-Acute toxicity, oral: 4

H313-Acute toxicity, dermal: 5

H314-Skin corrosion/irritation: 1B

H317-Sensitisation, skin: 1

H318-Serious eye damage/eye irritation: 1

H331-Acute toxicity, inhalation: 3

H334-Sensitisation, respiratory: 1

H341-Germ cell mutagenicity: 2

H350-Carcinogenicity: 1A

H370-Specific target organ toxicity, single exposure: 1

H372-Specific target organ toxicity, repeated exposure: 1

#### Pictograms or Hazard symbols and Hazard statement(s):



Signal word: Danger

#### Hazard statements:

H302-Harmful if swallowed

H313-May be harmful in contact with skin

H314-Causes severe skin burns and eye damage

H317-May cause an allergic skin reaction  
H318-Causes serious eye damage  
H331-Toxic if inhaled  
H334-May cause allergy or asthma symptoms or breathing difficulties if inhaled  
H341-Suspected of causing genetic defects  
H350-May cause cancer  
H370-Causes damage to organs (target organs: respiratory system, central nervous system, and optic nerve)  
H372-Causes damage to organs through prolonged or repeated exposure (target organs: kidney, liver, heart, spleen, and blood)

## **Precautionary Statements:**

P201-Obtain special instructions before use.  
P202-Do not handle until all safety precautions have been read and understood.  
P260-Do not breathe dust/fume/gas/mist/vapours/spray.  
P261-Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264-Wash thoroughly after handling.  
P270-Do not eat, drink, or smoke when using this product.  
P271-Use only outdoors or in a well-ventilated area.  
P272-Contaminated work clothing should not be allowed out of the workplace.  
P280-Wear protective gloves/protective clothing/eye protection/face protection.  
P281-Use personal protective equipment as required.  
P285-In case of inadequate ventilation wear respiratory protection.  
P301+P312-If swallowed: Call a Poison Center or doctor/physician if you feel unwell.  
P301+P330+P331-If swallowed: Rinse mouth. Do NOT induce vomiting.  
P302+P352-If on skin: Wash with plenty of soap and water.  
P303+P361+P353-If on skin (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304+P340-If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P304+P341-If inhaled: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P305+P351+P338-If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P307+P311-If exposed or concerned: Call a Poison Center or doctor/physician.  
P308+P313-If exposed or concerned: Get medical advice/attention.  
P310-Immediately call a Poison Center or doctor/physician.  
P311-Call a Poison Center or doctor/physician.  
P312-Call a Poison Center or doctor/physician if you feel unwell.  
P314-Get medical advice/attention if you feel unwell.  
P330-Rinse mouth.  
P333+P313-If skin irritation or rash occurs: Get medical advice/attention.  
P342+P311-If experiencing respiratory systems: Call a Poison Center or doctor/physician.  
P363-Wash contaminated clothing before reuse.  
P403+P233-Store in a well-ventilated place. Keep container tightly closed.  
P405-Store locked up.  
P501-Dispose of contents/container in accordance with local/regional/national/international regulations.

### Section 3 - Composition, Information on Ingredients

| CAS#      | Chemical Name               | Percent  |
|-----------|-----------------------------|----------|
| 7758-80-7 | Sodium Phosphate, monobasic | 1.2 w/v  |
| 1310-73-2 | Sodium Hydroxide            | 0.27 w/v |
| 111-30-8  | Glutaraldehyde              | 2 v/v    |
| 50-00-0   | Formaldehyde, 37-40%        | 10 v/v   |
| 67-56-1   | Methyl Alcohol              | <1.5 v/v |
| 7732-18-5 | Water                       | balance  |

### Section 4 - First Aid Measures

**Eye Exposure:** In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

**Dermal Exposure:** In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Seek medical attention.

**Oral Exposure:** If swallowed, seek immediate medical advice. Do NOT induce vomiting. Rinse mouth with water and drink plenty of water afterwards.

**Inhalation Exposure:** If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

### 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 gases may be generated by thermal decomposition or combustion.

**Extinguishing Media:** Use dry chemical, carbon dioxide, dry sand, water spray, or alcohol-resistant foam.

**Hazardous Combustion Products:** Carbon oxides, sodium oxides, phosphorus oxides, hydrogen, formaldehyde, irritating toxic fumes and gases.

**Flash Point:** Not available

**Autoignition Temperature:** Not available

**Explosion Limits, Lower:** Not available

**Upper:** Not available

**NFPA Rating:** (estimated) Health: 3; Flammability: 0; Instability: 0

## Section 6 - Accidental Release Measures

### **Procedure(s) of Personal Precaution(s):**

Wear personal protective equipment. Do not ingest or inhale. Do not get on skin or clothing. Do not get in eyes. Ensure adequate ventilation.

**Methods for Cleaning up:** Absorb with sand, earth, or vermiculite. Carefully sweep up and containerize for proper disposal. Do not release to the environment. Do not release to drains.

## Section 7 - Handling and Storage

Use care when handling. Wear personal protective equipment. Wash thoroughly after handling. Ensure adequate ventilation. Do not ingest or inhale. Do not get on skin or clothing. Do not get in eyes. **Store in a tightly closed container in the refrigerator (4°C).** Keep away from incompatible materials.

## Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:** Use explosion-proof ventilation equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

### **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 protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

**Exposure Limits:**

| Chemical Name                                | ACGIH                       | NIOSH   | OSHA - Final PELs  |
|--|-----------------------------|---|--|
| Sodium Phosphate, monobasic<br>CAS#7558-80-7 | Not listed                  | Not listed  | Not listed   |
| Sodium Hydroxide<br>CAS#1310-73-2            | 2 mg/m3 Ceiling             | 2 mg/m3 Ceiling<br>10 mg/m3 IDLH  | 2 mg/m3 TWA<br>2 mg/m3 Ceiling                                 |
| Glutaraldehyde<br>CAS#111-30-8               | 0.05 ppm Ceiling            | 0.2 ppm Ceiling<br>0.8 mg/m3 Ceiling  | 0.2 ppm Ceiling (Vacated)<br>0.8 mg/m3 Ceiling (Vacated)       |
| Formaldehyde, 37-40%<br>CAS#50-00-0          | 0.1 ppm TWA<br>0.3 ppm STEL | 0.1 ppm Ceiling<br>0.016 ppm TWA<br>20 ppm IDLH                                 | 0.75 ppm TWA<br>2 ppm STEL                                     |
| Methyl Alcohol<br>CAS#67-56-1                | 200 ppm TWA<br>250 ppm STEL | 200 ppm TWA<br>260 mg/m3 TWA<br>250 ppm STEL<br>325 mg/m3 STEL<br>6000 ppm IDLH | 200 ppm TWA<br>260 mg/m3 TWA<br>250 ppm STEL<br>325 mg/m3 STEL |

**OSHA Vacated PELs:** Glutaraldehyde: 0.2 ppm Ceiling; 0.8 mg/m3 Ceiling  
Formaldehyde, 37-40%: 5 ppm Ceiling; 3 ppm TWA; 10 ppm STEL  
Methyl Alcohol: 200 ppm TWA; 260 mg/m3 TWA; 250 ppm STEL;  
325 mg/m3 STEL

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| Section 9 - Physical and Chemical Properties |
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**Physical State:** Liquid

**Appearance:** Clear, colorless

**Odor:** Pungent

**Vapor Pressure:** Not available

**Odor threshold:** Not available

**Vapor Density:** Not available

**pH:** Approx. 7.2

**Relative Density:** Not available

**Melting point/freezing point:** Not available

**Solubility:** Soluble in water

**Boiling Point:** Not available

**Flash point:** Not available

**Evaporation Rate:** Not available

**Flammability (solid, gas):** Not available

**Partition coefficient: n-octanol/water:** Not available

**Auto-ignition temperature:** Not available

**Decomposition temperature:** Not available

**Viscosity:** Not available

**Specific Gravity/Density:** Not available

## Section 10 - Stability and Reactivity

**Chemical Stability:** Stable under ordinary conditions of use and storage. Heat and sunlight can contribute to instability. **Keep refrigerated (4° C).**

**Conditions to Avoid:** Incompatible materials, ignition sources, excess heat, and freezing.

**Incompatibilities with Other Materials:** Strong oxidizing agents, acids, strong bases, alcohols, amines, nitriles, isocyanates, acid anhydrides, metals, water, aluminum, brass, metal alloys, zinc, tin, peroxides, and acid chlorides.

**Hazardous Decomposition Products:** Carbon oxides, sodium oxides, phosphorus oxides, hydrogen, formaldehyde, irritating toxic fumes and gases.

## Section 11 - Toxicological Information

### **CAS#7758-80-7 Sodium phosphate, monobasic:**

LD50 Oral: 8290 mg/kg (rat)

LD50 Dermal: >7940 mg/kg (rabbit)

LC50 Inhalation: >0.83 mg/L 4h (rat)

**Carcinogenicity:** Sodium phosphate, monobasic CAS#7758-80-7 is not listed by IARC, NTP, ACGIH, OSHA, or California Prop 65.

### **CAS#1310-73-2 Sodium Hydroxide: RTECS#: WB4900000**

LD50 Oral: 140-340 mg/kg (rat)

LD50 Dermal: 1350 mg/kg (rabbit)

LC50 Inhalation: Not available

**Carcinogenicity:** Sodium Hydroxide CAS#1310-73-2 is not listed by IARC, NTP, ACGIH, OSHA, or California Prop 65.

### **CAS#111-30-8 Glutaraldehyde:**

LD50 Oral: 77 mg/kg (rat)

LD50 Dermal: >2500 mg/kg (rat)

LC50 Inhalation: 0.28-0.39 mg/L 4h (rat)

**Carcinogenicity:** Glutaraldehyde CAS#111-30-8 is not listed by IARC, NTP, ACGIH, OSHA, or California Prop 65.

### **CAS#50-00-0 Formaldehyde:**

LD50 Oral: 500 mg/kg (rat)

LD50 Dermal: 270 mg/kg (rabbit)

LC50 Inhalation: 0.578 mg/L 4h (rat)

**Carcinogenicity:** Formaldehyde CAS#50-00-0 is not listed by OSHA. Formaldehyde is listed by IARC (Group 1, Carcinogenic to Humans), NTP (Known Carcinogen), ACGIH (A1, Known Human Carcinogen), and California Prop. 65 as a carcinogen.

**CAS#67-56-1 Methyl Alcohol: RTECS#: PC1400000**

LD50 Oral: >1187-2769 mg/kg (rat)  
LD50 Dermal: 17100 mg/kg (rabbit)  
LC50 Inhalation: 128.2 mg/L (rat) 4h

**Carcinogenicity:** Methyl Alcohol CAS# 67-56-1 is not listed by IARC, NTP, ACGIH, or OSHA. Methyl Alcohol is listed by California Prop. 65 as a developmental carcinogen.

**Epidemiology:** Not available

**Teratogenicity:** Not available

**Reproductive Effects:** Not available

**Developmental Effects:** Not available

**Neurotoxicity:** Not available

**Mutagenicity:** Not available

**Specific Target Organ Toxicity, Single Exposure:** Respiratory system, central nervous system, and optic nerve.

**Specific Target Organ Toxicity, Repeated Exposure:** Kidney, liver, heart, spleen, and blood.

**The toxicological properties of this material have not been thoroughly investigated.**

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| Section 12 - Ecological Information |
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**Ecotoxicity:** Do not release to the environment. Do not release to drains. Very toxic to aquatic life. May cause long-term adverse effects in the aquatic environment.

**CAS#1310-73-2 Sodium Hydroxide:**

LC50, freshwater fish: 45.4 mg/L 96h static (Oncorhynchus mykiss)

**CAS#111-30-8 Glutaraldehyde:**

LC50, freshwater fish: 5.4 mg/L 96h static (pimephales promelas)  
LC50, freshwater fish: 7.8-22 mg/L 96h static (lepomis macrochirus)  
LC50, freshwater fish: 2.6-4.8 mg/L 96h flow-through (oncorhynchus mykiss)  
LC50, freshwater fish: 7.8-13 mg/L 96h static (oncorhynchus mykiss)  
EC50, freshwater algae: 0.61 mg/L 72h (desmodesmus subspicatus)  
EC50, freshwater algae: 0.84 mg/L 96h (desmodesmus subspicatus)  
EC50, water flea: 0.56-1.0 mg/L 48h static (daphnia magna)  
EC50, water flea: 14 mg/L 48h (daphnia magna)  
EC50, microtox: 13.3 mg/L 17h  
EC50, microtox: 76.0 mg/L 5min

**CAS#50-00-0 Formaldehyde:**

LC50, freshwater fish: 15 mg/L 96h (leuciscus idus)  
EC50, water flea: 20 mg/L 96h  
EC50, water flea: 2 mg/L 48h

**CAS# 67-56-1 Methyl Alcohol:**

LC50, freshwater fish: >10000 mg/L 96h (pimephales promelas)(fathead minnow)

EC50, water flea: >10000 mg/L 24h

EC50, algae: 22000 mg/L 96h (pseudokirchneriella subcapitata)(green algae)

IC50, bacteria: >1000 mg/L 3h (activated sludge)

**Persistence and degradability:** Not available

**Bio-accumulative potential:** Not available

**Solubility:** Will likely be mobile in the environment due to its water solubility.

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| Section 13 - Disposal Considerations |
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**DISPOSAL:** Dispose of in accordance with all federal, state, and local regulations.

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| Section 14 – Transport Information |
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**DOT**

Non-Regulated

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| Section 15 - Regulatory Information |
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**Canada Regulatory Information**

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the SDS contains all the information required by the CPR.

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| Section 16 - Additional Information |
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**SDS Creation Date:** 2/7/14 YM

**Revision #1.** 2/23/15 YM

**Revision #2.** RC 11/21/16

**Revision #3.** 11-2-18

**Revision #4.** 7-12-22

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