

# Safety Data Sheet

## GLUTARALDEHYDE FIXATIVE, 6% BUFFERED

### Section 1 - Chemical Product and Company Identification

**SDS Name:** Glutaraldehyde Fixative, 6% Buffered

**Catalog Numbers:** SO-994, F-140

**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

H315-Skin corrosion/irritation: 2

H317-Sensitisation, skin: 1

H318-Serious eye damage/eye irritation: 1

H332-Acute toxicity, inhalation: 4

H334-Sensitisation, respiratory: 1

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



Signal word: Danger

#### Hazard statements:

H302-Harmful if swallowed

H315-Causes skin irritation

H317-May cause an allergic skin reaction

H318-Causes serious eye damage

H332-Harmful if inhaled

H334-May cause allergy or asthma symptoms or breathing difficulties if inhaled

## Precautionary Statements:

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.  
P285-In case of inadequate ventilation wear respiratory protection.  
P301+P312-If swallowed: Call a Poison Center or doctor/physician if you feel unwell.  
P302+P352-If on skin: Wash with plenty of soap and water.  
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.  
P310-Immediately call a Poison Center or doctor/physician.  
P312-Call a Poison Center or doctor/physician if you feel unwell.  
P330-Rinse mouth.  
P332+P313-If skin irritation occurs: Get medical advice/attention.  
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.  
P362-Take off contaminated clothing and wash before reuse.  
P363-Wash contaminated clothing before reuse.  
P501-Dispose of contents/container in accordance with local/regional/national/international regulations.

## Section 3 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent
10049-21-5	Sodium Phosphate, monobasic monohydrate	0.16 w/v
7558-79-4	Sodium Phosphate, dibasic anhydrous	0.90 w/v
111-30-8	Glutaraldehyde	6 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.

**Inhalation Exposure:** If inhaled, remove to fresh air. Seek immediate medical attention.

#### 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, 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: 2; 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. Do not store in metal containers.

#### 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 - PELs
Sodium Phosphate, monobasic monohydrate CAS#10049-21-5	Not listed	Not listed	Not listed
Sodium Phosphate, dibasic CAS#7558-79-4	Not listed	Not listed	Not listed
Glutaraldehyde CAS#111-30-8	0.05 ppm Ceiling	0.2 ppm Ceiling 0.8 mg/m3 Ceiling	0.2 ppm Ceiling (Vacated) 0.8 mg/m3 Ceiling (Vacated)

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:** 6.8-7.8

**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, strong acids, strong bases, alcohols, amines, ammonia, and ketones.

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

## Section 11 - Toxicological Information

### **CAS#10049-21-5 Sodium phosphate, monobasic monohydrate:**

LD50 Oral: 8290 mg/kg (rat)

LD50 Dermal: >7940 mg/kg (rabbit)

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

**Carcinogenicity:** Sodium phosphate, monobasic monohydrate CAS#10049-21-5 is not listed by IARC, NTP, ACGIH, OSHA, or California Prop 65.

### **CAS#7558-79-4 Sodium phosphate, dibasic:**

LD50 Oral: 17 g/kg (rat)

LD50 Dermal: Not available

LC50 Inhalation: Not available

**Carcinogenicity:** Sodium phosphate, dibasic CAS#7558-79-4 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.

**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:** Not available

**Specific Target Organ Toxicity, Repeated Exposure:** Not available

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

## Section 12 - Ecological Information

**Ecotoxicity:** Do not release to the environment. Do not release to drains. Very toxic to aquatic life.

**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

**Persistence and degradability:** Not available

**Bio-accumulative potential:** Not available

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

## Section 13 - Disposal Considerations

**DISPOSAL:** Dispose of in accordance with all federal, state, and local regulations.

## Section 14 – Transport Information

**DOT**

Non-Regulated

## Section 15 - Regulatory Information

### 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.

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

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

Revision #2. 11/21/16 RC

Revision #3. 11-1-18

Revision #4. 6-13-22

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