

**Alpha-Tec Systems, Inc. (360) 260-2779**12019 NE 99th St. #1780  
Vancouver, WA 98682 USAProto-fix™ 037-18, 4100CS, 041-00, 041-01, 041-02,  
4102CS, 041-03, 4103CS, 041-04 4104CS, 4105CS,  
4106CS, 041-06, 041-07, 041-14**Alpha-Tec Systems, Inc.**  
**Material Safety Data Sheet****Section 1. Chemical Product and Company Identification**

Common Name / Trade Name: Proto-fix™

Manufacturer: Alpha-Tec Systems, Inc. Code: See Above  
12019 NE 99th Street CAS#: Not Applicable  
Vancouver, WA 98682

Commercial Name: Proto-fix™ Chemical Family: A mixture  
Synonym: None Material Use: In-vitro, lab, parasitology fixative  
Chemical Formula: Proprietary Formula Molecular Weight: Not Determined  
Supplier: Alpha-Tec Systems, Inc. Appearance: Clear, red, low viscosity liquid

**Chemical Emergency**

INFOTRAC 1-800-535-5053  
Hours: 24 hours a day  
Outside the United States Call Collect: 1-352-323-3500

**Section 2. Composition / Components**

Name	CAS#	TWA (mg/m <sup>3</sup> )	STEL (mg/m <sup>3</sup> )	CEIL (mg/m <sup>3</sup> )	% Range by Weight / Volume
Ethyl Alcohol	64-17-5	1900			< 20
Methanol	67-56-1	260	325		< 1
Isopropyl	67-63-0	980	1225		< 1
Formaldehyde	50-00-0	0.9	2.5	0.37	< 0.75

- No other Proto-fix™ ingredient, present at 1.0% or more, is contained in the SARA Title III, Section 313 list.
- No other Proto-fix™ ingredient, present at 0.1% or more and listed as a carcinogenic agent as defined by OSHA and contained in Section 313, is contained in this mixture.

**Section 3. Physical Data**

Physical State: Liquid Viscosity: Low Specific Gravity: Not Determined  
Vapor Pressure: Not Determined Vapor Density: Not Determined % Volatile: Not Determined  
Boiling Point: 83 °C Freezing Point: -27 °C Sol in Water: Yes

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4106CS, 041-06, 041-07, 041-14**Section 4. Fire and Explosion Data**

Flammability of the Product:	Non-combustible.
Flash Point:	152° F (closed cup method)
Flammable Limits:	Not Determined
Fire Hazards in Presence of Various Substances:	No specific information is available in our database regarding the flammability of this product in the presence of various materials.
Fire Fighting Media and Instructions:	Use DRY chemicals, CO <sub>2</sub> , or foam. Wear self-contained breathing apparatus and protective clothing.
Special Remarks on Fire Hazards:	All alcohol products and dilute formalin products may emit toxic fumes under fire conditions.

**Section 5. Reactivity Data**

Stability:	Stable
Conditions to avoid:	Avoid heat. Avoid long exposures to air.
Hazardous decomposition products:	Stable.

**Section 6. Health Hazard Data**

Threshold limit value:	Not Determined
Effects of overexposure:	May irritate eyes and skin upon contact. Inflammation of the skin is characterized by itching, scaling, reddening or occasionally, blistering. Inflammation of the eyes is characterized by redness, watering and itching.
Note:	<i>Formaldehyde</i> is extremely dangerous, in case of skin contact (irritant, permeator), of eye contact (irritant), of ingestion, of inhalation. Methyl alcohol is harmful and may be fatal in case of inhalation and ingestion. It is also an eye and skin irritant. <i>Denatured Alcohol</i> is extremely dangerous in case of skin contact ( <i>irritant</i> ), of eye contact (irritant), and of ingestion or inhalation.
Carcinogenicity Status:	<i>Formaldehyde</i> is classified + by OSHA / NIOSH
Chemicals known to the state of California to cause Cancer:	<i>Formaldehyde, Ethyl Alcohol 200 Proof</i>
Chemicals known in the state of California to cause birth defects or other reproductive harm:	<i>Ethyl Alcohol 200 Proof</i>
Emergency & First Aid Procedures:	In case of contact, IMMEDIATELY flush eyes with water for at least 15 minutes. Skin should be washed with warm water and soap. If inhaled, move to a well-ventilated area. If swallowed and conscious, give plenty of milk or water. Contact a physician.
NFPA Rating:	Health: 0      Flammability: 0      Reactivity: 0

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**Section 7. Spill and Disposal**

Spill Procedure: Wear protective clothing, safety glasses, and chemical-resistant gloves. Use absorbent material to take up the material. Flush the area with water and dry the affected area immediately. Dispose of the absorbent material properly. Color from the dyes can be eradicated by wiping promptly, with Alkyl dimethyl benzyl ammonium chlorides base solution (i.e. 409®, Lysol®).

Disposal Procedure: Ensure compliance with all local, state and federal regulations. This formulation is exempt from EPA disposal regulations and can be safely flushed with water down drains to municipal sewage.

**Section 8. Special Protection Information**

Ordinary general ventilation is usually sufficient. As part of good laboratory practices for handling biological waste, protective clothing such as gloves and safety glasses are recommended.

**Section 9. Special Handling and Storing Precautions.**

Wash hands thoroughly after use.  
Store tightly capped at room temperature.  
Color from dyes can be eradicated by wiping, promptly, with Alkyl dimethyl benzyl ammonium chlorides base solution (i.e. 409®, Lysol®)

**Section 10. Other Information**

The statements contained herein are offered for information purposes only. Alpha-Tec Systems, Inc. makes no warranties, expressed or implied, and assumes no liability in connection with any of this information.

Note: NA or N/A denotes Not Available or Non Applicable.

DOT Information:	Proper Shipping Name:	None
	Non-Hazardous for Transport:	This substance is considered to be Non-hazardous for transport.
IATA Information:	Proper Shipping Name:	None
	Non-Hazardous for Transport:	Non-Hazardous for air transport.

This form similar to U.S. Department Labor Form OSHA-20.

**Section 11. Trademark Information**

Proto-fix™ is a trademark of Alpha-Tec Systems, Inc.  
Lysol® is a registered trademark of Receipt & Colman, Inc.  
409® is a registered trademark of The Clorox Co.

**Section 12. Revision Information**

Prep. Date 3/98. rev. 12/8/03