

# MATERIAL SAFETY DATA SHEET

## ClearPrep<sup>®</sup> Preservative

Effective Date: August 31, 2014

### SECTION I – PRODUCT IDENTIFICATION AND COMPANY

Product Name: ClearPrep<sup>®</sup> Preservative  
Catalog Numbers: CP10008, CP11011, CP12001, CP12500, CP13001, CP13016, CP13500,  
CP21011, CP22001, CP22500, CP23001, CP23500, CP24500,  
CP31011, CP32001, CP32500, CP33001, CP33500, CP34500  
Manufacturer/Supplier: Resolution Biomedical, Inc.  
3002 Dow Avenue, Ste. 132  
Tustin, CA 92780  
(949) 551-8000 phone  
(949) 207-3121 fax  
Emergency Contact: ChemTrec at (800) 424-9300

### SECTION II – COMPOSITION/COMPONENT DETAILS

Description: A solution of denatured reagent alcohol in water. Also contains small amounts of sodium chloride, dibasic sodium phosphate and sodium citrate.

INGREDIENTS	CAS NO.	OSHA PEL	ACGIH TLV	%
Ethanol	64-17-5	1000 ppm (TWA)	1000 ppm (TWA)	28.5% v/v
Isopropanol	67-63-0	400 ppm (TWA)	400 ppm (STEL)	1.6% v/v
Methanol	67-56-1	200 ppm (TWA)	200 ppm (TWA)	1.6% v/v

### SECTION III – HAZARDS IDENTIFICATION

Overview: Toxic by inhalation, absorption or ingestion. Cannot be made non-toxic. Methanol is a cumulative poison and death has been reported for ingestion of less than 30 milliliters. Causes CNS depression, headache, intoxication, dilation of the pupils, convulsions, nausea, and dizziness. Unconsciousness and death may result. Methanol intoxication may produce visual disturbances and blindness.

• **Safety Ratings:**

Wear suitable protective clothing, gloves and eye protection.

Store at room temperature away from sources of ignition.

• **HMIS Ratings:**

Health: Hazardous

Flammability: Flammable

Reactivity: Slight

Contact: Slight

**NFPA Ratings:**

Health = 2

Flammability = 3

Reactivity = 0



• **Potential Health Effects:**

The toxicology of this compound has not been completely examined. It is presumed that the toxicity of this item is similar to other aliphatic alcohols.

**Inhalation:** Alcohols are absorbed through the mucous membranes and will produce irritation as well as the same effects as ingestion.

**Ingestion:** Ingestion can produce CNS disturbance, dizziness, photophobia, headache, stupor, coma and death.

**Skin contact:** Alcohols are absorbed through the skin. Repeated contact causes defatting of the skin with resultant irritation and flaking.

**Eye contact:** May be irritating.

**Chronic Exposure:** Unknown

**Affect on preexisting conditions:** Impaired kidney and liver function may be aggravated by exposure to alcohols. Preexisting eye, skin, and respiratory conditions may also be aggravated. Methanol has shown genetic toxicity in some animals.

### SECTION IV – FIRST AID MEASURES

**Inhalation:** Remove from source of exposure and get medical attention for any breathing difficulty.

**Ingestion:** Do not induce vomiting if patient is unconscious or extremely drowsy. Otherwise administer two glasses of water and induce vomiting. Get immediate medical attention even if symptoms improve.

MSDS-CP10008-01



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**Skin Contact:** In case of skin contact, remove contaminated clothing and flush with water. Wash affected area with soap and water. Get medical advice if irritation develops.

**Eye Contact:** In case of eye contact, flush with water for at least fifteen minutes and get medical attention.

#### SECTION V – FIRE FIGHTING MEASURES

**Flash point:** 29°C (84°F) TCC  
**Flammable Limits (for ethanol):** LEL: 3%, UEL: 19%  
**Fire:** Water is ineffective against alcohol fires but may be used to cool adjacent containers.  
**Fire Extinguishing Media:** Use alcohol foam, carbon dioxide or dry chemical.  
**Special information:** Pyrolysis will release toxic carbon monoxide.

#### SECTION VI – ACCIDENTAL RELEASE MEASURES

Remove all sources of ignition, absorb with a suitable absorbent (such as paper towels) and dispose.

#### SECTION VII – HANDLING AND STORAGE

Store in closed container.

**Materials to avoid:** Heat, sparks, and other sources of ignition.

#### SECTION VIII – EXPOSURE CONTROL/PERSONAL PROTECTION

**Airborne Exposure Limits:** See section II  
**Ventilation System:** Usually not required. When required, Refer to the ACGIH document, “Industrial Ventilation, a Manual of Recommended Practices” for details about ventilation.  
**Personal Respirator:** Usually not required. In case of emergency, or when exposure levels are unknown, use a positive pressure, full face piece, air supplied respirator.  
**Skin protection:** Protective gloves are not required but recommended as part of good laboratory practice.  
**Eye Protection:** Laboratory safety goggles or similar products are not required but recommended as part of good laboratory practice.

#### SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

**Boiling Point:** 172°F  
**Density:** 0.959 g/ml  
**Vapor pressure:** 40 mm Hg @ 19°C  
**Vapor Density (air = 1):** 1.6  
**Evaporation Rate (Ethanol = 1):** 1  
**Solubility:** Infinitely miscible with water  
**Appearance and Odor:** A clear colorless liquid with the characteristic odor of methyl alcohol.

#### SECTION X – STABILITY AND REACTIVITY

**Stability:** Freezes only at very low temperature.  
**Hazardous Decomposition Products:** Nothing unusual.  
**Hazardous polymerization:** Will not occur.  
**Incompatibilities:** Oxidizers.  
**Conditions to avoid:** Heat, sparks, and other sources of ignition.

#### SECTION XI – TOXICOLOGICAL INFORMATION

Chronic consumption of ethanol is believed to be linked to liver disease, cancer and birth defects.

Ingredients	Known			IARC Category
	Carcinogenicity?	NTP?	Anticipated?	
Ethanol	No	No	No	None
Methanol	No	No	No	None
Isopropanol	No	No	No	3

#### SECTION XII – ECOLOGICAL INFORMATION

**Environmental Fate:** Biodegradable  
**Environmental Toxicity:** None expected

Ethanol evaporates quickly and is not expected to bioaccumulate. The material is removed from the air by dry and liquid adsorption. The half-life for ethanol in the atmosphere is one to ten days.

#### SECTION XIII – DISPOSAL CONSIDERATIONS

The preferred disposal method is incineration. Localities may restrict the amounts of alcohols that may be flushed down the drain. Insure

compliance with all government regulations.

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SECTION XIV – TRANSPORTATION INFORMATION

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<i>Identification Number:</i>	UN1170	<i>Hazard Class:</i>	3
<i>Proper Shipping name:</i>	Ethyl alcohol solution	<i>Hazard Label:</i>	Flammable liquid
<i>Packing Group:</i>	III		

Bottles smaller than 32 fluid ounces are eligible to be shipped under ORM-D or limited quantity exemptions [49 CFR sections 173.150(b)(2) and 173.150(C)].

INGREDIENTS	TSCA	EC	<u>Chemical Inventory Status</u>	SECTION XV – REGULATORY INFORMATION
Ethanol	Yes	Yes		<u>Federal, State, and International Regulations</u>
Methanol	Yes	Yes		
Isopropanol	Yes	Yes		Chemical Weapons Convention: No TSCA 12(b): No    CDTA: Yes SARA 311/312: Acute: Yes    Chronic: Yes

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SECTION XVI – OTHER INFORMATION

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This information is believed to be correct but is not warranted as such, nor does it purport to be all inclusive.