



## MATERIAL SAFETY DATA SHEET

MSDS-1020, brewPAL™ Test System

### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<b>Product Name:</b> Veriflow® brewPAL™ System		Cat. No. IS1020	
<b>Product Use:</b> Food Diagnostic			
<b>Manufacturer's Name:</b> Invisible Sentinel, Inc.		<b>Supplier's Name:</b> Invisible Sentinel, Inc.	
<b>Street Address:</b> 3711 Market Street, Suite 910		Street Address: 3711 Market Street, Suite 910	
<b>City:</b> Philadelphia		<b>State:</b> PA	
<b>City:</b> Philadelphia		<b>State:</b> PA	
Postal Code: 19104	Emergency Telephone: 215-966-6118	Postal Code: 19104	Emergency Telephone 215-966-6118
Date MSDS Prepared: 1/9/15			

### SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

Kit Component and Catalog No.	Hazardous Ingredients ( <i>specific</i> )	%	CAS Number	Hazard Type
Test Cassette IS0121	N/A		N/A	
PCR Reagent IS0520	Tris buffered with HCl	0.8-1.2%	77-86-1	Xi -Irritant
Buffer A IS0701	Tween-20	0.01-0.05%	9005-64-5	Xi -Irritant
Buffer B IS0702	Tween-20	1-5%	9005-64-5	Xi -Irritant
	Sodium phosphate, dibasic	1-5%	7558-79-4	Xi -Irritant

### SECTION 3 — HAZARDS IDENTIFICATION

Test Cassette IS0121: No hazards known
PCR Reagent IS0520: May cause irritation to eyes and skin.
Buffer A IS0701: May cause irritation to eyes, skin and stomach, if ingested.
Buffer B IS0702: May cause irritation to eyes, skin and stomach, if ingested.



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### SECTION 4 — FIRST AID MEASURES (N/A = not applicable)

#### TEST CASSETTE

Skin Contact: No action needed.

Eye Contact: No action needed.

Inhalation: N/A

Ingestion: N/A

#### PCR REAGENT

Skin Contact: Wash with soap and water. Get medical attention if symptoms appear.

Eye Contact: Flush Eyes with plenty of water for 15 minutes to ensure adequate flushing. Get medical attention if symptoms appear.

Inhalation: N/A

Ingestion: Wash mouth out with water. Get medical attention if symptoms appear.

#### BUFFER A

Skin Contact: Wash with soap and water. Get medical attention if symptoms appear.

Eye Contact: Flush Eyes with plenty of water for 15 minutes to ensure adequate flushing. Get medical attention if symptoms appear.

Inhalation: N/A

Ingestion: Do not induce vomiting without medical advice.

#### BUFFER B

Skin Contact: Wash with soap and water. Get medical attention if symptoms appear.

Eye Contact: Flush Eyes with plenty of water for 15 minutes to ensure adequate flushing. Get medical attention if symptoms appear.

Inhalation: N/A

Ingestion: Do not induce vomiting without medical advice.



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### SECTION 5 — FIRE FIGHTING MEASURES

Means of Extinction:

Use an extinguishing agent suitable for the surrounding fire, no unsuitable methods known.

Hazardous Combustion Products: No specific hazard

### SECTION 6 — ACCIDENTAL RELEASE MEASURES

Personal precautions: Wear appropriate safety and protective equipment.

Environmental precautions: Avoid dispersal of spilled material and runoff contact with soil, waterways, drains and sewers.

Methods for cleaning up: Contain spilled materials. Add absorbent material to soak up spill and place in appropriate container for disposal.

### SECTION 7 — HANDLING AND STORAGE

Handling: Wear protective laboratory gloves when handling kit components. Wash hands after handling.

Storage: Store PCR reagent at -20°C and the remaining kit components at room temperature.

### SECTION 8 — EXPOSURE CONTROL / PERSONAL PROTECTION

Specific Engineering Controls (*such as ventilation, enclosed process*)

No specific ventilation requirements, good general ventilation should be sufficient to control airborne levels, if any occur.

Personal Protective Equipment     Gloves\*     Respirator     Eye     Footwear     Clothing\*     Other

\*If checked, please specify type: Latex or nitrile protective laboratory gloves, lab coat.

### SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

#### PCR REAGENT

Physical State – Liquid at room temperature	Odor and Appearance – Clear no odor	Melting Point (°C) – Not Determined
Specific Gravity – Not Determined	Boiling Point (°C) – Not Determined	

#### BUFFER A

Physical State – Liquid at room temperature	Odor and Appearance – Clear no odor	Melting Point (°C) – Not Determined
Specific Gravity – Not Determined	Boiling Point (°C) – Not Determined	

#### BUFFER B

Physical State – Liquid at room temperature	Odor and Appearance – Clear no odor	Melting Point (°C) – Not Determined
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Specific Gravity – Not Determined	Boiling Point (° C) – Not Determined	
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### SECTION 10 — STABILITY AND REACTIVITY

**Stability:** Stable under recommended storage conditions.

**Materials to avoid:** Acid chlorides, phosphorous halides, strong oxidizing agents, strong acids, strong reducing agents, for all buffers, digest reagent and PCR reagent.

**Decomposition products:** Carbon monoxide, carbon dioxide, sulfur dioxides.

**Hazardous polymerization:** Will not occur.

### SECTION 11 — TOXICOLOGICAL INFORMATION

#### ACUTE AND CHRONIC AFFECTS BASED ON ROUTES OF EXPOSURE

**Eye Contact:** May cause irritation.

**Skin Contact:** May cause irritation.

**Ingestion:** Low toxicity. May cause nausea, headache or diarrhea.

**Inhalation:** Unlikely at room temperature, inhalation of mist may cause irritation of respiratory tract.

#### CHRONIC EXPOSURE:

**Target Organ(s):** May cause kidney damage upon significant/chronic ingestion of reagents.

#### AGGRAVATION OF PRE-EXISTING CONDITIONS:

Persons with pre-existing skin disorder or eye problems or impaired liver or kidneys may be more susceptible to the effects of the material.

**NTP:** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen.

**ACGIH:** No component of this product present at levels greater than or equal to 0.1 % is identified as a known or suspected human carcinogen or confirmed animal with unknown relevance humans.

**IARC:** No component of this product present at levels greater than or equal to 0.1 % is identified as probable, possible or confirmed human carcinogen.

### SECTION 12 — ECOLOGICAL INFORMATION

No Data Available



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### SECTION 13 — DISPOSAL CONSIDERATIONS

Dispose of container, unused contents and contaminated packaging in accordance with federal, state and local requirement.

### SECTION 14 — TRANSPORT INFORMATION

This product is not dangerous and no special precautions are needed according to DOT, ADR/RID (cross border), IMDG and IATA/ICAO.

### SECTION 15 — REGULATORY INFORMATION

OSHA Hazards: None known.

US Classification and Label Test

US Statements: Caution. Avoid contact and inhalation. Target Organ (s): Kidneys.

United States Regulatory Information:

Sara Listed: No

Canada Regulatory Information:

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

Safety Statements: Do not breathe vapor. Avoid contact with skin and eyes.

### SECTION 16 — OTHER INFORMATION

The information provided on the MSDS is furnished in good faith and based on our present knowledge. However, this MSDS shall not constitute a guarantee of any kind. Personnel handling this material must make independent determinations of the suitability and completeness of information from all sources to assure proper use and disposal of this material and the safety and health of employees and customers. Invisible Sentinel, Inc. assumes no additional liability or responsibility resulting from the use of, or reliance on this information.

Questions about the information found on this MSDS should be directed to [info@invisiblesentinel.com](mailto:info@invisiblesentinel.com).