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### **Universal Indicator UN1170**

## **SECTION 1: Identification**

Product identifier

**Product name:** Universal Indicator UN1170

Product code: UN1000SS

Recommended use of the product and restriction on use

Relevant identified uses: Laboratory Chemicals

**Uses advised against:** Not determined or not applicable.

**Reasons why uses advised against:** Not determined or not applicable.

#### Manufacturer or supplier details

Manufacturer: United States

AquaPhoenix Scientific, Inc. 860 Gitts Run Road Hanover, PA 17331 1-717-632-1291

## **Emergency telephone number:**

Canada

ChemTel: (24-hour) +1(800)255-3924

+1(813)248-0585 (International)

### **SECTION 2: Hazard identification**

#### **GHS** classification:

Flammable liquids, category 3

#### **Label elements**

# **Hazard pictograms:**



Signal word: Warning

#### **Hazard statements:**

H226 Flammable liquid and vapor.

## **Precautionary statements:**

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/light/equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353 If on skin (or hair): Immediately remove/take off all contaminated clothing. Rinse skin with water/shower.

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P370+P378 In case of fire: Use agents recommended in section 5 for extinction.

P403+P235 Store in a well ventilated place. Keep cool.

P501 Dispose of contents and container as instructed in Section 13.

Hazards not otherwise classified: None

## **SECTION 3: Composition/information on ingredients**

Identification	Name	Weight %
CAS number: 7732-18-5	Water, purified	>40
CAS number: 64-17-5	Ethyl Alcohol	60
CAS number: 845-10-3	Methyl Red, Sodium Salt	<0.1
CAS number: 34722-90-2	Bromothymol Blue, Sodium Salt	<0.2
CAS number: 547-58-0	Methyl Orange, Sodium Salt	<0.06

**Additional Information: None** 

# **SECTION 4: First-aid measures**

#### **Description of first-aid measures**

#### **General notes:**

Not determined or not available.

#### After inhalation:

Loosen clothing as necessary and position individual in a comfortable position Maintain an unobstructed airway

Get medical advice/attention if you feel unwell

#### After skin contact:

Rinse affected area with soap and water

If symptoms develop or persist, seek medical attention

### After eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes

If symptoms develop or persist, seek medical attention

### After ingestion:

Rinse mouth thoroughly

Seek medical attention if irritation, discomfort, or vomiting persists

## Most important symptoms and effects, both acute and delayed

### Acute symptoms and effects:

Not determined or not available.

#### **Delayed symptoms and effects:**

Not determined or not available.

### Immediate medical attention and special treatment

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#### Specific treatment:

Not determined or not available.

#### Notes for the doctor:

Not determined or not available.

## **SECTION 5: Fire-fighting measures**

## **Extinguishing media**

#### Suitable extinguishing media:

Use Water (fog only), dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam

### Unsuitable extinguishing media:

Not determined or not applicable.

### Specific hazards during fire-fighting:

Thermal decomposition can lead to release of irritating gases and vapors

Vapors can flow to distant ignition sources and flashback

Liquid is volatile and may generate an explosive atmosphere

# Special protective equipment for firefighters:

Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit

## **Special precautions:**

Shut off sources of ignition

Carbon monoxide and carbon dioxide may form upon combustion

Heating causes a rise in pressure, risk of bursting and combustion

#### **SECTION 6: Accidental release measures**

### Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation

Ensure air handling systems are operational

Wear protective eye wear, gloves and clothing

Beware of vapors accumulating to form explosive concentrations

Vapors can accumulate in low areas

#### **Environmental precautions:**

Should not be released into the environment

Prevent from reaching drains, sewer or waterway

#### Methods and material for containment and cleaning up:

Wear protective eye wear, gloves and clothing

Use spark-proof tools and explosion-proof equipment

Absorb with non-combustible liquid-binding material (sand, diatomaceous earth (clay), acid binders, universal binders)

Dispose of contents / container in accordance with local regulations

### Reference to other sections:

Not determined or not applicable.

## **SECTION 7: Handling and storage**

## Precautions for safe handling:

Use only with adequate ventilation.

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Avoid breathing mist or vapor.

Do not eat, drink, smoke or use personal products when handling chemical substances.

Take precautionary measures against electrostatic discharges.

Use only non-sparking tools.

## Conditions for safe storage, including any incompatibilities:

Keep container tightly sealed.

Protect from freezing and physical damage.

Store in a cool, well-ventilated area.

Store away from all ignition sources (open flames, hot surfaces, direct sunlight, spark sources).

### **SECTION 8: Exposure controls/personal protection**

Only those substances with limit values have been included below.

#### Occupational Exposure limit values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
ACGIH	Ethyl Alcohol	64-17-5	ACGIH TLV TWA 1,000 ppm
	Ethyl Alcohol	64-17-5	ACGIH TLV STEL 1,000 ppm
United States (OSHA)	Ethyl Alcohol	64-17-5	OSHA PEL TWA 1,000 ppm
	Ethyl Alcohol	64-17-5	OSHA PEL TWA 1,900 mg/m <sup>3</sup>
NIOSH	Ethyl Alcohol	64-17-5	NIOSH REL TWA 1,000 ppm
	Ethyl Alcohol	64-17-5	NIOSH REL TWA 1,900 mg/m <sup>3</sup>

### **Biological limit values:**

No biological exposure limits noted for the ingredient(s).

# Information on monitoring procedures:

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls.

Biological monitoring may also be appropriate for some substances.

#### Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above. Use explosion-proof ventilation equipment.

## Personal protection equipment

### Eye and face protection:

Safety goggles or glasses, or appropriate eye protection.

## Skin and body protection:

Select glove material impermeable and resistant to the substance.

Wear appropriate clothing to prevent any possibility of skin contact.

### **Respiratory protection:**

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

## General hygienic measures:

Avoid contact with skin, eyes and clothing.

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Wash hands before breaks and at the end of work. Wash contaminated clothing before reuse.

## **SECTION 9: Physical and chemical properties**

## Information on basic physical and chemical properties

Appearance (physical state, color):	Clear, green liquid
Odor:	Alcohol-like
Odor threshold:	Not available
pH-value:	Not available
Melting/Freezing point:	Not available
Boiling point/range:	80°C
Flash point:	23.89°C
Evaporation rate:	>1 (Ether = 1)
Flammability (solid, gaseous):	Not available
Explosion limit upper:	12.0 vol %
Explosion limit lower:	2.0 vol %
Vapor pressure:	Not available
Vapor density:	1.3
Density:	Not available
Relative density:	0.93
Solubilities:	Not determined or not available.
Partition coefficient (n-octanol/water):	Not available
Auto/Self-ignition temperature:	Not available
Decomposition temperature:	Not available
Dynamic viscosity:	Not available
Kinematic viscosity:	Not available
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or not available.

#### Other information

# SECTION 10: Stability and reactivity

#### Reactivity:

Does not react under normal conditions of use and storage.

## **Chemical stability:**

Stable under normal conditions of use and storage.

## Possibility of hazardous reactions:

None under normal conditions of use and storage.

#### Conditions to avoid:

None known.

### **Incompatible materials:**

None known.

### **Hazardous decomposition products:**

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### **Universal Indicator UN1170**

None known.

#### **SECTION 11: Toxicological information**

### **Acute toxicity**

**Assessment:** Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

Name	Route	Result
Methyl Orange, Sodium Salt	oral	LD50 Oral - Rat - 60mg/kg

#### Skin corrosion/irritation

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available. **Substance data:** No data available.

### Serious eye damage/irritation

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available. **Substance data:** No data available.

### Respiratory or skin sensitization

**Assessment:** Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

#### Carcinogenicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available. **Substance data:** No data available.

#### International Agency for Research on Cancer (IARC):

Name	Classification
Ethyl Alcohol	Group 1 - Carcinogenic to humans

National Toxicology Program (NTP): None of the ingredients are listed.

### Germ cell mutagenicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available. **Substance data:** No data available.

### Reproductive toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available. **Substance data:** No data available.

### Specific target organ toxicity (single exposure)

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

# Specific target organ toxicity (repeated exposure)

**Assessment:** Based on available data, the classification criteria are not met.

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### **Universal Indicator UN1170**

**Product data:** No data available. **Substance data:** No data available.

**Aspiration toxicity** 

**Assessment:** Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

**Information on likely routes of exposure:** No data available.

Symptoms related to the physical, chemical and toxicological characteristics: No data available.

Other information: No data available.

### **SECTION 12: Ecological information**

## Acute (short-term) toxicity

Assessment: Based on available data, the classification criteria are not met.

**Product data:** No data available. **Substance data:** No data available.

Chronic (long-term) toxicity

Product data: No data available.

Substance data: No data available.

### Persistence and degradability

**Product data:** No data available. **Substance data:** No data available.

## **Bioaccumulative potential**

**Product data:** No data available. **Substance data:** No data available.

Mobility in soil

Product data: No data available.
Substance data: No data available.
Other adverse effects: No data available.

### **SECTION 13: Disposal considerations**

#### **Disposal methods:**

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities

### **SECTION 14: Transport information**

## **Canadian Transportation of Dangerous Goods (TDG)**

UN number	UN 1170	
UN proper shipping name	Ethanol Solution	
UN transport hazard class(es)	3	PLANAUGIT LUGIO
Packing group	II	
Environmental hazards	None	·

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## **Universal Indicator UN1170**

Special precautions for user	None
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# **International Maritime Dangerous Goods (IMDG)**

UN number	UN 1170
UN proper shipping name	Ethanol Solution
UN transport hazard class(es)	3
Packing group	II
Environmental hazards	None
Special precautions for user	None

## International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN number	UN 1170
UN proper shipping name	Ethanol Solution
UN transport hazard class(es)	3
Packing group	II
Environmental hazards	None
Special precautions for user	None

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code		
Bulk Name	None	
Ship type	None	
Pollution category	None	

# **SECTION 15: Regulatory information**

## **Canada regulations**

# **Domestic substances list (DSL):**

845-10-3	Methyl Red, Sodium Salt	Listed
64-17-5	Ethyl Alcohol	Listed
34722-90-2	Bromothymol Blue, Sodium Salt	Listed
7732-18-5	Water, purified	Listed
547-58-0	Methyl Orange, Sodium Salt	Listed
64-17-5	Ethyl Alcohol	Listed

Non-domestic substances list (NDSL): Not determined.

## **SECTION 16: Other information**

**Abbreviations and Acronyms: None** 

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### **Universal Indicator UN1170**

#### **Disclaimer:**

This product has been classified in accordance with the Canadian Hazardous Products Regulations and WHMIS 2015. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

**NFPA:** 2-3-0 **HMIS:** 2-3-0

Initial preparation date: 04.03.2017

**End of Safety Data Sheet**