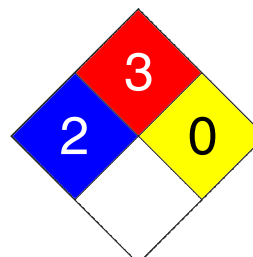


## 1. Product and Company Identification

**Product Name** PH Solution Wide Range  
**CAS #** Mixture  
**Product use** Water Testing Solution  
**Manufacturer** Pro Products LLC  
 7201 Engle Road  
 Fort Wayne, IN 46804-5875 US  
 Phone 260-483-2519  
 Emergency Phone: 1-800-424-9300 (CHEMTREC)

LEGEND HMIS/NFPA	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

Health	* 2
Flammability	3
Physical Hazard	0
Personal Protection	B



## 2. Hazards Identification

**Emergency overview** DANGER  
 Flammable liquid - may release vapors that form flammable mixtures at or above the flash point. Containers may explode when heated.  
 Eye and skin irritant. Contains a potential teratogen.

### Potential short term health effects

**Routes of exposure** Eye, Skin contact, Skin absorption, Inhalation, Ingestion.  
**Eyes** May cause irritation.  
**Skin** May cause irritation. May be absorbed through the skin.

### ACGIH - Threshold Limit Values - Skin Notations

Methyl alcohol 67-56-1 Skin - potential significant contribution to overall exposure by the cutaneous route

### NIOSH - Pocket Guide - Skin Notations

Methyl alcohol 67-56-1 Potential for dermal absorption

**Inhalation** May cause respiratory tract irritation.

**Ingestion** Harmful if swallowed. This product may cause blindness if it is swallowed. May cause irritation and symptoms similar to ethyl alcohol intoxication.

**Target organs** Blood. Eyes. Skin. Liver. Respiratory system. Central nervous system.

**Chronic effects** Prolonged or repeated exposure can cause drying, defatting and dermatitis.

**Signs and symptoms** Symptoms may include redness, edema, drying, defatting and cracking of the skin.  
 Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

## 3. Composition / Information on Ingredients

Ingredient(s)	CAS #	Percent
Ethanol	64-17-5	40 - 70
Methyl alcohol	67-56-1	1 - 5

## 4. First Aid Measures

### First aid procedures

**Eye contact** Immediately flush with cool water. Remove contact lenses, if applicable, and continue flushing for 15 minutes. Obtain medical attention if irritation develops or persists.  
**Skin contact** Immediately flush with water. Wash with soap and water. Obtain medical attention if irritation persists.

<b>Inhalation</b>	If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention. If breathing has stopped, trained personnel should administer CPR immediately.
<b>Ingestion</b>	If swallowed, get medical help or contact a Poison Control Center immediately. Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Never give anything by mouth if victim is unconscious, or is convulsing.
<b>Notes to physician</b>	Symptoms may be delayed.
<b>General advice</b>	Keep away from sources of ignition. No smoking. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

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## 5. Fire Fighting Measures

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<b>Flammable properties</b>	Flammable by WHMIS/OSHA criteria. Vapors may travel to a source of ignition and flash back. Containers may explode when heated.
<b>Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Dry chemical. Alcohol foam. Carbon dioxide.
<b>Unsuitable extinguishing media</b>	Not available
<b>Protection of firefighters</b>	
<b>Specific hazards arising from the chemical</b>	Not available
<b>Protective equipment for firefighters</b>	Firefighters should wear full protective clothing including self contained breathing apparatus.
<b>Hazardous combustion products</b>	May include and are not limited to: Oxides of carbon.
<b>Explosion data</b>	
<b>Sensitivity to mechanical impact</b>	Not available
<b>Sensitivity to static discharge</b>	Not available

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## 6. Accidental Release Measures

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<b>Personal precautions</b>	Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.
<b>Methods for containment</b>	Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas.
<b>Methods for cleaning up</b>	Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Never return spills in original containers for re-use.

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## 7. Handling and Storage

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<b>Handling</b>	Use good industrial hygiene practices in handling this material. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.
<b>Storage</b>	Keep out of reach of children. Do not store at temperatures above 120°F (49°C). Store in a closed container away from incompatible materials.

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## 8. Exposure Controls / Personal Protection

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### Exposure limits

Ingredient(s)	Exposure Limits
Ethanol	<b>ACGIH-TLV</b> TWA: 1000 ppm STEL: 1000 ppm <b>OSHA-PEL</b> TWA: 1000 ppm
Methyl alcohol	<b>ACGIH-TLV</b> TWA: 200 ppm STEL: 250 ppm <b>OSHA-PEL</b> TWA: 200 ppm

### Engineering controls

Use only under good ventilation conditions or with respiratory protection.

### Personal protective equipment

#### Eye / face protection

Wear safety glasses with side shields.

#### Hand protection

Rubber gloves. Confirm with a reputable supplier first.

#### Skin and body protection

As required by employer code.

#### Respiratory protection

Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.

#### General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

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## 9. Physical and Chemical Properties

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Appearance	Opaque
Color	Dark green
Form	Liquid
Odor	Alcohol
Odor threshold	Not available
Physical state	Liquid
pH	Not available
Melting point	Not available
Freezing point	Not available
Boiling point	> 176.00 °F (> 80 °C)
Pour point	Not available
Evaporation rate	Not available
Flash point	73.40 °F (23 °C) Closed Cup
Auto-ignition temperature	Not available
Flammability limits in air, lower, % by volume	3.3
Flammability limits in air, upper, % by volume	19
Vapor pressure	40 MmHg @20°C
Vapor density	1.6 (air=1)
Specific gravity	0.89
Octanol/water coefficient	Not available
Solubility (H2O)	Soluble
Percent volatile	Not available

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## 10. Stability and Reactivity

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Chemical stability	Stable under recommended storage conditions.
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<b>Conditions to avoid</b>	Heat, open flames, static discharge, sparks and other ignition sources. Do not mix with other chemicals.
<b>Incompatible materials</b>	Caustics. Acids. Oxidizers.
<b>Hazardous decomposition products</b>	May include and are not limited to: Oxides of carbon.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur.

## 11. Toxicological Information

### Component analysis - LC50

Ingredient(s)	LC50
Ethanol	31623 ppm rat
Methyl alcohol	Not available

### Component analysis - Oral LD50

Ingredient(s)	LD50
Ethanol	3450 mg/kg mouse; 7060 mg/kg rat
Methyl alcohol	5628 mg/kg rat; 7300 mg/kg mouse; 14200 mg/kg rabbit; 7600 mg/kg monkey

### Effects of acute exposure

<b>Eye</b>	May cause irritation.
<b>Skin</b>	May cause irritation. May be absorbed through the skin.

#### ACGIH - Threshold Limit Values - Skin Notations

Methyl alcohol	67-56-1	Skin - potential significant contribution to overall exposure by the cutaneous route
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#### NIOSH - Pocket Guide - Skin Notations

Methyl alcohol	67-56-1	Potential for dermal absorption
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**Inhalation** May cause respiratory tract irritation.

**Ingestion** Harmful if swallowed. This product may cause blindness if it is swallowed. May cause irritation and symptoms similar to ethyl alcohol intoxication.

**Sensitization** Non-hazardous by WHMIS/OSHA criteria.

**Chronic effects** Non-hazardous by WHMIS/OSHA criteria.

**Carcinogenicity** Contains an ingredient that is classified or listed by IARC, NTP, OSHA or ACGIH.

#### ACGIH - Threshold Limit Values - Carcinogens

Ethanol	64-17-5	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans
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#### IARC - Group 1 (Carcinogenic to Humans)

Ethanol	64-17-5	Monograph 96 [in preparation] (in alcoholic beverages)
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**Mutagenicity** Non-hazardous by WHMIS/OSHA criteria.

**Reproductive effects** Non-hazardous by WHMIS/OSHA criteria.

**Teratogenicity** Methanol has produced teratogenic effects in mice exposed by inhalation to high concentrations that did not produce significant maternal toxicity.

**Synergistic Materials** Not available

## 12. Ecological Information

**Ecotoxicity** See below

#### Ecotoxicity - Freshwater Fish - Acute Toxicity Data

Ethanol	64-17-5	96 Hr LC50 Oncorhynchus mykiss: 12.0-16.0 ml/L [static]; 96 Hr LC50 Pimephales promelas: >100 mg/L [static]; 96 Hr LC50 Pimephales promelas: 13400-15100 mg/L [flow-through]
Methyl alcohol	67-56-1	96 Hr LC50 Pimephales promelas: 28200 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: >100 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 19500-20700 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 18-20 ml/L [static]; 96 Hr LC50 Lepomis macrochirus: 13500-17600 mg/L [flow-through]

#### Ecotoxicity - Water Flea - Acute Toxicity Data

Ethanol	64-17-5	48 Hr LC50 Daphnia magna: 9268 - 14221 mg/L; 24 Hr EC50 Daphnia magna: 10800 mg/L; 48 Hr EC50 Daphnia magna: 2 mg/L [Static]
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**Environmental effects** Not available

**Aquatic toxicity** Not available

**Persistence / degradability** Not available

**Bioaccumulation / accumulation** Not available

Partition coefficient	Not available
Mobility in environmental media	Not available
Chemical fate information	Not available
Other adverse effects	Not available

## 13. Disposal Considerations

Waste codes	Not available
Disposal instructions	Review federal, state/provincial, and local government requirements prior to disposal.
Waste from residues / unused products	Not available
Contaminated packaging	Not available

## 14. Transport Information

### U.S. Department of Transportation (DOT)

**Basic shipping requirements:**

Proper shipping name	Ethanol solutions
Hazard class	3
UN number	UN1170
Packing group	II

**Additional information:**

Special provisions	24, IB2, T4, TP1
Packaging exceptions	150
ERG number	127



### Transportation of Dangerous Goods (TDG - Canada)

**Basic shipping requirements:**

Proper shipping name	ETHANOL SOLUTION more than 24 per cent ethanol, by volume
Hazard class	3
UN number	UN1170
Packing group	II



## 15. Regulatory Information

**Canadian federal regulations** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

**Canada - WHMIS - Ingredient Disclosure List**

Ethanol	64-17-5	0.1 %
Methyl alcohol	67-56-1	1 %

**US Federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.

**U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities**

Methyl alcohol	67-56-1	5000 Lb final RQ; 2270 kg final RQ
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**U.S. - CERCLA/SARA - Section 313 - Emission Reporting**

Methyl alcohol	67-56-1	1.0 % de minimis concentration
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**Occupational Safety and Health Administration (OSHA)**

29 CFR 1910.1200 hazardous chemical Yes

**CERCLA (Superfund) reportable quantity**

Methanol: 5000.0000  
Sodium hydroxide: 1000.0000  
2,4-Dinitrophenol: 10.0000

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories**  
Immediate Hazard - Yes  
Delayed Hazard - Yes  
Fire Hazard - Yes  
Pressure Hazard - No  
Reactivity Hazard - No

**Section 302 extremely hazardous substance** No

**Section 311 hazardous chemical** Yes

**Clean Air Act (CAA)** Not available

**Clean Water Act (CWA)** Not available

**WHMIS status** Controlled

**WHMIS classification** Class B - Division 2 - Flammable Liquid, Class D - Division 2A, 2B

**WHMIS labeling****State regulations**

**WARNING:** This product contains a chemical known to the State of California to cause cancer.

**U.S. - California - 8 CCR Section 339 - Director's List of Hazardous Substances**

Ethanol	64-17-5	Present (refers to solutions greater than or equal to 25% which are not beverage alcohols)
Methyl alcohol	67-56-1	Present (refers to solutions greater than or equal to 3%)

**U.S. - California - Proposition 65 - Developmental Toxicity**

Ethanol	64-17-5	developmental toxicity, initial date 10/1/87 (when in alcoholic beverages)
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**U.S. - Illinois - Toxic Air Contaminants**

Methyl alcohol	67-56-1	Present
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**U.S. - Louisiana - Reportable Quantity List for Pollutants**

Methyl alcohol	67-56-1	5000 Lb final RQ; 2270 kg final RQ
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**U.S. - Massachusetts - Right To Know List**

Ethanol	64-17-5	Teratogen
Methyl alcohol	67-56-1	Present

**U.S. - Minnesota - Hazardous Substance List**

Ethanol	64-17-5	Present
Methyl alcohol	67-56-1	Skin

**U.S. - New Jersey - Right to Know Hazardous Substance List**

Ethanol	64-17-5	sn 0844
Methyl alcohol	67-56-1	sn 1222

**U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances**

Methyl alcohol	67-56-1	5000 Lb RQ (air); 1 lb RQ (land/water)
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**U.S. - Pennsylvania - RTK (Right to Know) List**

Ethanol	64-17-5	Present
Methyl alcohol	67-56-1	Environmental hazard

**U.S. - Rhode Island - Hazardous Substance List**

Ethanol	64-17-5	Toxic; Flammable
Methyl alcohol	67-56-1	Toxic; Flammable

**Inventory name**

<b>Country(s) or region</b>	<b>Inventory name</b>	<b>On inventory (yes/no)*</b>
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

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## 16. Other Information

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<b>Disclaimer</b>	Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.
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<b>Other information</b>	For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document.