

## PROVIROX

### SECTION 1. IDENTIFICATION

**Product Identifier** PROVIROX

**Restrictions on Use** THIS PRODUCT IS FOR INDUSTRIAL USE ONLY. KEEP AWAY FROM CHILDREN.

**Manufacturer/Supplier Identifier** BBSpro, #270 19358 96TH AVE, SURREY, BC, V4N 4C1, CANADA, BBSpro, (604) 420-4305

**Emergency Phone No.** BBSpro, 1-899-420-4305  
CANUTEC, (613) 996-6666

**SDS No.** 0323

### SECTION 2. HAZARD IDENTIFICATION

#### Classification

Oxidizing liquid - Category 2; Acute toxicity (Oral) - Category 4; Skin corrosion - Category 1; Serious eye damage - Category 1

#### Label Elements



Signal Word:

Danger

Hazard Statement(s):

Flammable liquid and vapour.

Harmful if swallowed, in contact with skin or if inhaled.

Causes severe skin burns and eye damage.

Precautionary Statement(s):

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Do not eat, drink or smoke when using this product.

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

Wash hands and skin thoroughly after handling.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Phosphoric acid solutions	7664-38-2	5-15		
2-Propanol	67-63-0	5		
Hydrogen peroxide solutions 20% to less than 35%	7722-84-1	1-15		

## SECTION 4. FIRST-AID MEASURES

### First-aid Measures

#### Inhalation

Take precautions to ensure your own safety before attempting rescue (e.g. wear appropriate protective equipment). Remove source of exposure or move to fresh air. Keep at rest in a position comfortable for breathing. Avoid mouth-to-mouth contact by using a barrier device. Call a Poison Centre or doctor if you feel unwell.

#### Skin Contact

Avoid direct contact. Wear chemical protective clothing if necessary. Quickly and gently blot or brush away excess chemical. Wash with plenty of water. Get medical advice or attention if you feel unwell or are concerned. Call a Poison Centre or doctor if you feel unwell. Clean clothing, shoes and leather goods.

#### Eye Contact

Avoid direct contact. Wear chemical protective gloves if necessary. Quickly and gently blot or brush chemical off the face. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice or attention.

#### Ingestion

Rinse mouth with water. Call a Poison Centre or doctor if you feel unwell.

#### First-aid Comments

Get medical advice or attention if you feel unwell or are concerned.

## SECTION 5. FIRE-FIGHTING MEASURES

### Extinguishing Media

#### Suitable Extinguishing Media

Carbon dioxide, dry chemical powder, appropriate foam, water spray or fog. Use flooding quantities of water or other suitable extinguishing agent.

### Specific Hazards Arising from the Product

Can ignite if strongly heated.

Not known to generate any hazardous decomposition products in a fire.

### Special Protective Equipment and Precautions for Fire-fighters

Use extreme caution.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment, and Emergency Procedures

Use the personal protective equipment recommended in Section 8 of this safety data sheet.

### Environmental Precautions

It is good practice to prevent releases into the environment.

### Methods and Materials for Containment and Cleaning Up

No special clean-up methods are necessary.

## SECTION 7. HANDLING AND STORAGE

### Precautions for Safe Handling

Do not get in eyes, on skin or on clothing. Wear personal protective equipment to avoid direct contact with this chemical.

### Conditions for Safe Storage

Well-ventilated. Store in the original, labelled, shipping container.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Product Identifier: PROVIROX - Ver. 1

SDS No.: 0323

Date of Preparation:

Date of Last Revision: June 12, 2018

Page 02 of 06

## Control Parameters

Chemical Name	ACGIH TLV®		OSHA PEL		AIHA WEEL	
	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
Hydrogen peroxide solutions 20% to less than 35%	1 ppm A3		1.4 mg/m3			10 ppm
Phosphoric acid solutions	1 mg/m3	3 mg/m3	1 mg/m3			
2-Propanol	200 ppm A4	400 ppm	400 ppm			

### Appropriate Engineering Controls

Provide eyewash and safety shower if contact or splash hazard exists.

### Individual Protection Measures

#### Eye/Face Protection

Wear chemical safety goggles and face shield when contact is possible.

#### Skin Protection

Wear chemical protective clothing e.g. gloves, aprons, boots.

#### Respiratory Protection

Not required.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Basic Physical and Chemical Properties

Appearance	Clear. Particle Size: Not available
Odour	Soapy
Odour Threshold	Not available
pH	1.9
Melting Point/Freezing Point	Not available (melting); Not available (freezing)
Initial Boiling Point/Range	~ 100 °C (212 °F)
Flash Point	Not available
Evaporation Rate	Not available
Flammability (solid, gas)	Not applicable (liquid).
Upper/Lower Flammability or Explosive Limit	Not applicable (upper); Not available (lower)
Vapour Pressure	Not available
Vapour Density (air = 1)	Not available
Relative Density (water = 1)	1.04
Solubility	Soluble in all proportions in water; Not available (in other liquids)
Partition Coefficient, n-Octanol/Water (Log Kow)	Not available
Auto-ignition Temperature	Not applicable
Decomposition Temperature	Not available
Viscosity	Not available (kinematic); Not available (dynamic)
<b>Other Information</b>	
Physical State	Liquid
Molecular Formula	Not available
Molecular Weight	Not available
Bulk Density	Not available
Surface Tension	Not available
Critical Temperature	Not available

Product Identifier: PROVIROX - Ver. 1

SDS No.: 0323

Date of Preparation:

Date of Last Revision: June 12, 2018

Page 03 of 06

<b>Electrical Conductivity</b>	Not available
<b>Vapour Pressure at 50 deg C</b>	Not available
<b>Saturated Vapour Concentration</b>	Not available

## SECTION 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive.

### Chemical Stability

Normally stable.

### Possibility of Hazardous Reactions

None expected under normal conditions of storage and use.

### Conditions to Avoid

Alkaline conditions (high pH).

### Incompatible Materials

Strong oxidizing agents (e.g. perchloric acid), strong bases (e.g. sodium hydroxide).  
Cast iron, carbon steel, zinc alloys, nickel, magnesium, lead, aluminum alloys.

### Hazardous Decomposition Products

Very toxic carbon monoxide, carbon dioxide.

## SECTION 11. TOXICOLOGICAL INFORMATION

Information presented below is for the entire product, unless otherwise specified.

### Likely Routes of Exposure

Eye contact; skin contact; inhalation; ingestion.

### Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Hydrogen peroxide solutions 20% to less than 35%	~ 113 ppm (mouse) (4-hour exposure)	1193 mg/kg (male rat)	9200 mg/kg (rabbit)
Phosphoric acid solutions	> 213 mg/m <sup>3</sup> (rat) (4-hour exposure)	1530 mg/kg (rat)	2740 mg/kg (rabbit)
2-Propanol	17000 ppm (rat) (4-hour exposure)	4720 mg/kg (male rat)	12890 mg/kg (rabbit)

LC50: No information was located.

LD50 (oral): No information was located.

LD50 (dermal): No information was located.

### Skin Corrosion/Irritation

Corrosive based on information for closely related materials.

### Serious Eye Damage/Irritation

May cause serious eye damage based on information for closely related materials.

### STOT (Specific Target Organ Toxicity) - Single Exposure

#### Inhalation

May be harmful based on information for closely related materials.

#### Skin Absorption

No information was located.

#### Ingestion

May be harmful based on information for closely related materials.

**Aspiration Hazard**

May be drawn into the lungs (aspirated) if swallowed or vomited.

**STOT (Specific Target Organ Toxicity) - Repeated Exposure**

Conclusions cannot be drawn from the limited studies available.

**Respiratory and/or Skin Sensitization**

No information was located.

**Carcinogenicity**

Conclusions cannot be drawn from the limited studies available.

**Reproductive Toxicity****Development of Offspring**

Conclusions cannot be drawn from the limited studies available.

**Sexual Function and Fertility**

Conclusions cannot be drawn from the limited studies available.

**Effects on or via Lactation**

Conclusions cannot be drawn from the limited studies available.

**Germ Cell Mutagenicity**

Conclusions cannot be drawn from the limited studies available.

**Interactive Effects**

No information was located.

**SECTION 12. ECOLOGICAL INFORMATION**

Environmental information was not located.

**Ecotoxicity**

Studies were not located.

**Persistence and Degradability**

No information was located.

**Bioaccumulative Potential**

No information was located.

**Mobility in Soil**

Studies are not available.

**Other Adverse Effects**

There is no information available.

**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal Methods**

Contact local environmental authorities for approved disposal or recycling methods in your jurisdiction.

**SECTION 14. TRANSPORT INFORMATION**

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
Canadian TDG	2984	HYDROGEN PEROXIDE, AQUEOUS SOLUTION	5.1	III

**Special Precautions** Not applicable

**Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable

Product Identifier: PROVIROX - Ver. 1

SDS No.: 0323

Date of Preparation:

Date of Last Revision: June 12, 2018

Page 05 of 06

## SECTION 15. REGULATORY INFORMATION

### Safety, Health and Environmental Regulations

None known.

## SECTION 16. OTHER INFORMATION

**SDS Prepared By** BBSpro  
**Phone No.** 6045138888  
**Date of Last Revision** June 12, 2018  
**Key to Abbreviations** ACGIH® = American Conference of Governmental Industrial Hygienists  
AIHA® = AIHA® Guideline Foundation OSHA = US Occupational Safety and Health Administration  
**References** CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS).

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Product Identifier: PROVIROX - Ver. 1

SDS No.: 0323

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Page 06 of 06