

# SAFETY DATA SHEET

## 1. Identification of the substance/mixture and of the company

### 1.1 Product identifier

**Product Name: PRO-CC-AQ  
Fiber Optic Cleaner**

Product ID numbers: PRO-CC-AQ

### 1.2 Relevant identified uses of the mixture and uses advised against

**Identified uses:** Water-based cleaning solution, no residue for precision cleaning.

**List of advices against:** Not applicable.

### 1.3 Details of the supplier of the safety data sheet

**Supplier/Manufacturer:**

**Precision Rated Optics**

9999 Hamilton Blvd, Ste 220

Breinigsville, PA 18031

Tel: 888-545-1254

Email: sales@precisionratedoptics.com

### 1.4 Emergency telephone numbers

INFOTRAC 1-352-323-3500 (USA)

## 2. Hazards Identification

### 2.1 Classification of the substance or mixture

**Classification according to OSHA 29 CFR 1910.1200 and Regulation (EC) No 1272/2008.**

Skin Irritation: Skin Irrit 3 H315

Flammable: Flam Liq 4 H227

### 2.2 Label elements

**Contains:** 1-Butoxy-2-propanol, Isopropanol

**Pictograms:** None required.

**Signal Word:** Warning

**Hazard Statements:**

H316 Causes mild skin irritation.

H227 Combustible liquid.

**Precautionary Statements:**

P210 Keep away from flames and hot surfaces. No smoking.

P280 Wear protective gloves.

P332+P313 If skin irritation occurs: Get medical attention.

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

P501 Dispose of contents/container in accordance with local regulations.

### 2.3 Other hazards:

No information available.

## 3. Composition/Information on Ingredients

<u>Component</u>	<u>CAS #</u>	<u>EC #</u>	<u>Wt. %</u>	<u>GHS/CLP Classification</u>
1-Butoxy-2-propanol	5131-66-8	225-878-4	1 - 5	Skin Irrit 2 H315;

Dipropylene glycol monomethyl ether	34590-94-8	252-104-2	1 - 5	Eye Irrit 2 H319 --
Isopropanol	67-63-0	200-661-7	<1	Flam Liq 2 H225 Eye Irrit 2 H319 STOT SE 3 H336

#### 4. First Aid Measures

##### 4.1 Description of first aid measures

- Eye Contact:** Flush eyes with a large quantity of water for 15 minutes. If irritation continues, seek medical attention.
- Skin Contact:** If skin irritation occurs, get medical attention.
- Inhalation (Breathing):** No first aid expected to be required. Not an inhalation hazard.
- Ingestion (Swallowing):** Rinse mouth. If discomfort continues, seek medical attention.

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

Aside from information above, no additional symptoms and effects are anticipated.

##### 4.3 Indication of immediate medical attention and special treatment needed.

No information available.

#### 5. Firefighting Measures

##### 5.1 Extinguishing media:

Does not apply.

##### 5.2 Special hazards arising from the substance or mixture

###### Hazardous decomposition and by-products:

High temperature steam, potentially carbon monoxide and carbon dioxide.

##### 5.3 Advice for firefighters

Sealed container can build up pressure when exposed to high heat. Cool containers with water.

#### 6. Accidental Release Measures

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

Avoid contact with eyes and skin.

##### 6.2 Environmental precautions:

Outside spills unlikely. Absorb with sand or absorbents.

##### 6.3 Methods materials for containment and cleaning up:

Flush small spills to drain with water.

##### 6.4 Reference to other sections:

Refer to Sections 4, 5, 8, and 13 for more information.

#### 7. Handling and Storage

##### 7.1 Precautions for safe handling

Avoid unnecessary contact.

##### 7.2 Conditions for safe storage, including incompatibilities

Keep product containers closed when not in use.

##### 7.3 Specific end uses

See product flyer for further information.

## 8. Exposure Controls / Personal Protection

### 8.1 Control parameters

#### Exposure limits and recommendations:

Component Name	Limit	Standard	Source/Note
1-Butoxy-2-propanol	50 ppm	Manufacturer Recommendation	
Dipropylene glycol monomethyl ether	600 mg/m <sup>3</sup>	OSHA PEL	
Dipropylene glycol monomethyl ether	100 ppm	ACGIH TLV	
Isopropanol	400 ppm	OSHA PEL	
Isopropanol	200 ppm	ACGIH TLV	

### 8.2 Exposure controls

#### Respiratory protection:

Normal ventilation is adequate.

#### Protective gloves:

For people with pre-existing skin conditions such as dermatitis the use of impermeable gloves is recommended.

#### Eye protection:

Eye protection is recommended, especially if the material is used in ways where it could contact the eyes.

## 9. Physical and Chemical

### 9.1 Information of basic physical and chemical properties

<b>Appearance:</b>	Clear liquid
<b>Odor threshold:</b>	Not available
<b>pH:</b>	Neutral
<b>Freezing point:</b>	~ 32°F (0°C)
<b>Boiling point:</b>	~ 212°F (100°C)
<b>Flash point:</b>	145 °F (63 °C) PMCC
<b>Evaporation rate:</b>	Like water
<b>Flammability (solid, gas):</b>	Not available
<b>Upper/lower flammability or explosive limits:</b>	Not available
<b>Vapor pressure:</b>	Not available
<b>Vapor density (Air = 1):</b>	Not available
<b>Specific gravity (H<sub>2</sub>O = 1):</b>	0.99
<b>Solubility in water:</b>	Complete
<b>Partition coefficient: n-octanol/water:</b>	Not available
<b>Auto-ignition temperature:</b>	Not available
<b>Decomposition temperature:</b>	Not available

### 9.2 Other Information

<b>Volatiles (Weight %):</b>	100%
<b>VOC Content:</b>	60.4 g/l

## 10. Stability and Reactivity

### 10.1 Reactivity:

No dangerous reaction known under conditions of normal use.

**10.2 Chemical stability:**

Stable

**10.3 Possibility of hazardous reactions:**

None known.

**10.4 Conditions to avoid:**

None known.

**10.5 Incompatible materials :**

Strong oxidizing agents, strong acids.

**10.6 Hazardous decomposition products:**

Carbon dioxide, carbon monoxide.

**11. Toxicological Information**

**11.1 Information on toxicological effects:**

**Acute toxicity**

**Eye contact:**

Direct eye contact may cause eye irritation. This irritation is minimal and expected to be transient.

**Skin contact:**

This product has low skin irritation potential. There is no dermal toxicity hazard.

**Irritation and Sensitization Potential:**

This product has low skin irritation potential. It is not a sensitizer.

**Inhalation (Breathing):**

No inhalation hazard expected with water vapor.

**Ingestion:**

Material has low level of oral toxicity.

**Toxicity to Animals**

1-Butoxy-2-propanol

LD<sub>50</sub> (oral rat) 2,124-5,500 mg/kg

LD<sub>50</sub> (dermal rat) >2,000 mg/kg

Dipropylene glycol monomethyl ether

LD<sub>50</sub> (oral rat) >5,000 mg/kg

LD<sub>50</sub> (dermal rabbit) 9,510 mg/kg

LC<sub>50</sub> (inhl rat) 3.35 mg/l, 7 hours

Isopropanol

LD<sub>50</sub> (oral rat) 3,600 mg/kg

LD<sub>50</sub> (dermal rabbit) 12,800 mg/kg

LC<sub>50</sub> (inhl rat) 16,000 ppm, 8 hours

**Aspiration hazard**

Not an aspiration hazard.

**Chronic Exposure:**

**Reproductive Toxicity:** Not Available

**Mutagenicity:** Not Available

**Teratogenicity:** Not Available

**Toxicologically Synergistic Products:** Not Available

**Carcinogenic Status:** This substance has not been identified as a carcinogen or probable carcinogen by NTP, IARC, or OSHA, nor have any of its components.

**12. Ecological Information**

**12.1 Ecotoxicity**

1-Butoxy-2-propanol

LC<sub>50</sub> 96 h Guppy 560-1,000 mg/l

Dipropylene glycol monomethyl ether	LC <sub>50</sub> 48 h Daphnia magna >1,000 mg/l
	LC <sub>50</sub> 96 h Fathead Minnow >10,000 mg/l
	LC <sub>50</sub> 48 h Daphnia magna 1,919 mg/l
Isopropanol	EC <sub>50</sub> 96 h Green algae >969 mg/l
	LC <sub>50</sub> 96 h Fathead Minnow >1,000 mg/l
	LC <sub>50</sub> 48 h Golden Orfe 8970 - 9280 mg/l
	EC <sub>50</sub> 96 h Daphnia magna >1,000 mg/l

<b>12.2 Persistence and degradability:</b>	No information available.
<b>12.3 Bioaccumulation potential:</b>	No information available
<b>12.4 Mobility in soil:</b>	No information available.
<b>12.5 Results of PBT and vPvB Assessment:</b>	This product is not, nor does it contain a substance that is a PBT or vPvB.
<b>12.6 Other adverse effects:</b>	None known.

**13. Disposal Considerations**

Dispose of product in accordance with National and Local Regulations.

**14. Transport Information**

<b>UN Number:</b>	Not Listed
<b>UN Proper shipping name:</b>	Not Applicable
<b>Transport hazard class(es):</b>	Not Applicable
<b>Packing group:</b>	Not Applicable
<b>Environmental hazards:</b>	None known
<b>Special precautions:</b>	None known
<b>TDG:</b>	Not Regulated
<b>ICAO/IATA-DGR:</b>	Not Regulated
<b>IMDG:</b>	Not Regulated
<b>ADR/RID:</b>	Not Regulated

**15. Regulatory Information**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

**USA Federal and State**

All components are listed on the TSCA inventory.

<b>Hazard Categories for SARA Section 311/312 Reporting</b>	<u>Acute</u> No	<u>Chronic</u> No	<u>Fire</u> No	<u>Pressure</u> No	<u>Reactive</u> No
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<u>Components</u>	<b>CERCLA/SARA Sec 302</b> <u>Hazardous Substance RQ</u>	<u>EHS TPQ</u>	<b>SARA Sec. 313</b> <u>Toxic Release</u>
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Components are not affected by these Superfund regulations.

<b>NFPA Ratings:</b>	Health:	1
	Fire:	0
	Reactivity:	0

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel during spill, fire or similar emergencies. Hazard ratings are based on physical and toxic properties of combustion or decomposition.

### European Union

All components are listed on the European Inventory of Existing Chemical Substances (EINECS).  
Product complies with the communication requirements of REACH Regulation (EC) No. 1907/2006. It does not contain Substances of Very High Concern (SVHC).

### Canada

All components are listed on the DSL inventory.  
This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

**WHMIS Classification:** NC

### Australia

All components are listed on the AICS.  
Not considered hazardous according to criteria of NOHSC Australia.

### 15.2 Chemical Safety Assessment

No chemical safety assessment has been carried out for the mixture by the supplier.

## 16. Other Information

### Abbreviations and acronyms:

OSHA = Occupational Safety and Health Administration  
CLP = Classification, Labeling and Packaging Regulation  
STOT = Specific Target Organ Toxicity  
LD<sub>50</sub> = Median Lethal Dose  
DNEL = Derived No Effect Level  
ACGIH = American Conference of Governmental Industrial Hygienists  
TSCA = Toxic Substances Control Act (USA)  
DSL = Domestic Substances List (Canada)  
AICS = Australian Inventory of Chemical Substances

### Hazard Statements:

H316	Causes mild skin irritation.
H227	Combustible liquid.

<b>Revision Date:</b>	December 23, 2014
<b>Revision Number:</b>	5
<b>Supersedes:</b>	September 29, 2014
<b>Other:</b>	Not Applicable
<b>Indication of Changes:</b>	Section 1, 2, 15, 16 updated. Addition of acronyms and other formatting changes. Updated in accordance with the provisions of OSHA 1910.1200 App D and REACH Annex II (EU No 453/2010). (GHS format)

The information and recommendations contained herein are believed to be reliable. However, the supplier makes no warranties, express or implied, concerning the use of this product. The buyer must determine conditions of safe usage and assumes all risk and liability in handling this product.