

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF SUBSTANCE AND PREPARATION

Supplier/Manufacturer:

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Emergency Number: +1-651-430-2270

**Product Name: AquaKleen™ Fiber
Optic Cleaner
(Type AQ)**

Chemical Description: Water-based cleaning solution

Product Use: Cleaner for Fiber Optic Components

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS #</u>	<u>EC #</u>	<u>Wt %</u>
1-Butoxy-2-propanol	5131-66-8	225-878-4	<10
Dipropylene glycol monomethyl ether	34590-94-8	252-104-2	<10
Isopropanol	67-63-0	200-661-7	<10

This product contains no other reportable hazardous components under 29 CFR 1910.1200. This product contains no other reportable hazardous components under European Directives 91/55/EEC.

3. HAZARDS IDENTIFICATION

Emergency Overview:	Industrial use only. Keep out of reach of children.
Eye Contact:	Direct eye contact with vapors may cause eye irritation. This irritation is minimal and expected to be transient.
Skin Contact:	Material designed to be gentle on skin.
Irritation and Sensitization Potential:	This product has low skin irritation potential.
Inhalation (Breathing):	No inhalation hazard expected with water vapor.
Ingestion (Swallowing):	Material has low level of oral toxicity. Ingestion of large quantities may cause irritation of the digestive tract and nervous system depression (e.g., drowsiness, dizziness, loss of coordination, and fatigue).

4. FIRST AID MEASURES

Eye Contact:	Flush eyes with a large quantity for 15 minutes. If irritation continues, seek medical attention.
Skin Contact:	None Required. Material designed to be gentle on skin.
Inhalation (Breathing):	No first aid expected to be required. Not an inhalation hazard.

Ingestion (Swallowing): Do not induce vomiting. Immediately administer large quantities of water. Obtain medical attention.

5. FIRE-FIGHTING MEASURES

Flash Point: 145 °F (63 °C) PMCC

Flammable Limits: Not Available

Autoignition Temperature: Not Available

Hazardous Decomposition and By-Products: High temperature steam, potentially carbon monoxide, carbon dioxide.

Extinguishing Media: Not Applicable

Special Precautions: Not Applicable

Unusual Hazards: Sealed container can build up pressure when exposed to high heat.

6. ACCIDENTAL RELEASE MEASURES

Minimal spill hazard with small packages. Absorb with sand or absorbants.

7. HANDLING AND STORAGE

Keep containers tightly closed when not in use. Avoid unnecessary contact.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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 because this and other oil/grease effective cleaners may adversely affect the skin.

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

Other Protective Equipment: None known.

Exposure Limits and Recommendations:

1-Butoxy-2-propanol	50 ppm (Manufacturer Recommendation)
Dipropylene glycol monomethyl ether	600 mg/m ³ (OSHA PEL) 100 ppm (ACGIH TLV)
Isopropanol	400 ppm (OSHA PEL) 200 ppm (ACGIH TLV)

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear liquid

Odor Threshold: Not Available

Vapor Density (Air = 1): Not Available

Specific Gravity (H₂O = 1):	.99
Solubility in Water:	Complete
Boiling Point:	~212°F / 100°C
Freezing Point:	~32°F / 0°C
Evaporation Rate:	Like water.
Vapor Pressure:	Not Available
Coefficient of Water/Oil Distribution:	Not Available
pH:	Neutral
Volatiles (Weight %):	100%
VOC Content:	60.4 g/l

10. STABILITY AND REACTIVITY

Stability:	Stable
Conditions to Avoid:	Avoid heat and flame.
Materials to Avoid:	Strong oxidizing agents, strong acids. Contact with acids will cause a heat-releasing reaction. Avoid contact with aluminum, zinc, and their alloys.

11. TOXICOLOGICAL INFORMATION

Toxicity to Animals:	1-Butoxy-2-propanol	LD ₅₀ (oral rat) 2,124-5,500 mg/kg LD ₅₀ (dermal rat) >2,000 mg/kg
	Dipropylene glycol monomethyl ether	LD ₅₀ (oral rat) >5,000 mg/kg LD ₅₀ (dermal rabbit) 9,510 mg/kg LC ₅₀ (inhl rat) 3.35 mg/l, 7 hours
	Isopropanol	LD ₅₀ (oral mouse) 3,600 mg/kg LD ₅₀ (dermal rabbit) 12,800 mg/kg LC ₅₀ (inhl rat) 16,000 ppm, 8 hours

Chronic Exposure:	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.
Reproductive Toxicity:	Not Available
Mutagenicity:	Not Available
Teratogenicity:	Not Available
Toxicologically Synergistic Products:	Not Available

12. ECOLOGICAL INFORMATION

Mobility:	No information available.	
Bioaccumulation:	Material is expected to be biodegradable.	
Ecotoxicity:	No information available.	
Aquatic Toxicity:	Material is practically non-toxic to aquatic organisms.	
	1-Butoxy-2-propanol	96 h LC ₅₀ guppy: 560 – 1,000 µl/l 48 h LC ₅₀ Daphnia magna: >1,000 mg/l
	Dipropylene glycol monomethyl ether	96 h LC ₅₀ Fathead Minnow: > 10,000 µl/l 48 h LC ₅₀ Daphnia magna: 1,919 mg/l
	Isopropanol	96 h LC ₅₀ Fathead Minnow: > 1000 µl/l 48 h LC ₅₀ Golden Orfe: 8970 - 9280 mg/l 96 h LC ₅₀ Daphnid: > 1000 µl/l

13. DISPOSAL CONSIDERATIONS

Dispose of product in accordance with National and Local Regulations.

14. TRANSPORTATION INFORMATION

UN Number:	Not Listed
UN Proper Shipping Name:	Not Applicable
Class and Subsidiary Risk:	Not Applicable
Packing Group:	Not Applicable
TDG:	Not Regulated
ICAO/IATA-DGR:	Not Regulated
IMDG:	Not Regulated
ADR/RID:	Not Regulated

15. REGULATORY INFORMATION**USA Federal and State**

All components are listed on the TSCA inventory.

Hazard Categories for SARA Section 311/312 Reporting	<u>Acute</u> No	<u>Chronic</u> No	<u>Fire</u> No	<u>Pressure</u> No	<u>Reactive</u> No
<u>Components</u>	<u>CERCLA/SARA Sec 302 Hazardous Substance RQ</u>		<u>EHS TPQ</u>	<u>SARA Sec. 313 Toxic Release</u>	

Components are not affected by these Superfund regulations.

European Union

Product is not classified as hazardous according to European Directives 88/379/EEC and 67/548/EEC and EU Regulation (EC) No 1272/2008.

Risk Phrases: Not Applicable

Safety Phrases: Not Applicable

Product complies with the communication requirements of REACH Regulation (EC) No. 1907/2006. It does not contain Substances of Very High Concern (SVHC).

Canada

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

Canadian DSL: All ingredients listed.

Australia

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

16. OTHER INFORMATION

NFPA Ratings:	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.

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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.