

MATERIAL SAFETY DATA SHEET

Revision Number: 1.2
Revision Date: 09-Sep17

1. PRODUCT & COMPANY IDENTIFICATION

Product Name: Waveguide Cleaning Kit – Solution 1
Catalog Number: 501609
Unit Size: 100 mL

World Precision Instruments, Inc.

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2. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms (Comp A) : Brij-35®
C12E23
Polyoxyethylene (23) lauryl ether

Formula (Comp A) : $(C_2H_4O)_n C_{12}H_{26}O$
Molecular Weight (Comp A) : 1198 g/mol

<u>Components</u>	<u>CAS-No.</u>	<u>% w/v</u>
A. Polyoxyethylene 23 lauryl ether	9002-92-0	0.15
B. Water	7732-18-5	>97%

3. HAZARD DATA

<u>Hazardous Component</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
• C12E23	Harmful by ingestion, irritant	NE

HMIS Classification/NFPA Rating

Health Hazard 2

Flammability 1

Physical Hazards 0

Flammable Limits: Flash point 113 C – closed cup

Fire and Explosion Hazards: Not considered to be a fire or explosion hazard.

4. REACTIVITY DATA

Storage Stability: Stable under recommended storage conditions.

Conditions to Avoid: Strong oxidizing agents

Hazardous Decomposition or By-products: Emits toxic fumes of carbon oxides.

5. PHYSICAL and CHEMICAL DATA

Appearance

Form Semi-solid melting to a liquid

Safety data

pH	5.5 – 7.5 at 100g/l
Boiling point (C at 760mmHg)	100
Melting point (C)	41 – 45
Flash point(C)	113
Vapor Pressure (mm Hg)	< 1hPa(<mmHg) at 20 C
Solubility in water	soluble

6. FIRST-AID MEASURES

Routes of entry: Inhalation – X Skin – X Ingestion – X

If Inhaled: If breathed in, move person into fresh air. If not breathing give artificial respiration. Consult a physician.

In case of eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

In case of skin contact: Wash off with soap and plenty of water. Consult a physician.

7. SAFE HANDLING AND USE

Handling: Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures
Preventive fire protection.

Environmental precautions: Do not let product enter drains.

Storage: Keep container tightly closed in a dry and well-ventilated place.

Disposal: Observe all federal, state, and local environmental regulations.

8. ECOLOGICAL INFORMATION

Elimination Information

Bioaccumulation	Cyprinus carpio (Carp) – 72h Bioconcentration factor (BCF) – 220
Ecotoxicity effects	
Toxicity to fish	LC50 – 1.4mg/l – 96h
Toxicity to daphnia	LC50 – 6.46mg/l – 48h

9. TRANSPORT INFORMATION

DOT (US) – Not Dangerous Goods Component A: <10% w/w	IATA – Not Dangerous Goods Component A: <10% w/w
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10. Regulatory Information

OSHA Hazards

Harmful by ingestion, Irritant

DSL Status

All components of this product are on the Canadian DSL List.

SARA 302/313

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. No materials in this substance exceed DeMinimis threshold Reporting levels established by SARA Title III, Section 313.

SARA 311/312

Acute Health Hazard

OTHER INFORMATION

DISCLAIMER OF LIABILITY

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. World Precision Instruments, Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.

This material is sold for research purposes only and is not required to appear on the TSCA inventory. It is not intended for food, drug, household, agricultural or cosmetic use. A technically qualified individual experienced in handling potentially hazardous chemicals must supervise its use. The above information is correct to the best of our knowledge. Users should make independent decisions regarding completeness of the information based on all sources available. World Precision Instruments shall not be held liable for any damage resulting from handling or contact with the above product.