

# MATERIAL SAFETY DATA SHEET

Revision Number: 1.2  
Revision Date: 09-Sept18

## 1. PRODUCT & COMPANY IDENTIFICATION

**Product Name:** Waveguide Cleaning Kit – Solution 3  
**Catalog Number:** 501609  
**Unit Size:** 100 mL

### World Precision Instruments, Inc.

175 Sarasota Center Blvd, Sarasota, FL 34240-9258, USA

For US Toll-Free: 1-866-606-1974

Technical Support FAX: 1-941-371-2534

Phone: (941) 371-1003 Web: <http://www.wpiinc.com>

Tech Support: [technicalsupport@wpiinc.com](mailto:technicalsupport@wpiinc.com)

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Component A Name: : Hydrochloric Acid Solution 2.0N  
Formula (Comp A) : HCl (aq)  
Molecular Weight (Comp A) : 36.45 g/mol

Name	CAS NO.	% Wt	SARA 313
• Hydrochloric acid	7647-01-0	>=5	No
• Water	7732-18-5	>= 90	No

## 3. HAZARD DATA

Hazardous Component	OSHA PEL	ACGIH TLV
• Hydrochloric acid	5 ppm (TWA)	5 ppm (TWA)

### Label Precautionary Statements:

**Warning:** Corrosive

### Emergency Overview

Irritant.

Irritating to eyes, respiratory system and skin.

### HMIS/NFPA Rating

Health: 2

Flammability: 0

Reactivity: 0

## 4. FIRST AID MEASURES

### Oral Exposure

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

### Inhalation Exposure

If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

### Dermal Exposure

In case of skin contact, flush with copious amounts of water for at 15 minutes. Remove contaminated clothing and shoes. Call a physician.

### Eye Exposure

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

## 5. FIRE FIGHTING MEASURES

**Flash point:** N/A

**Flammable Limits:** N/A

**Fire and Explosion Hazards:** Not considered to be a fire or explosion hazard. May react with metals to produce flammable hydrogen gas.

**Special Information:** In the event of fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

## 5. PHYSICAL and CHEMICAL DATA

**Appearance and odor:** Clear, colorless liquid with little or no odor.

**Stability:** Stable.

**Conditions to Avoid:** Stable under ordinary conditions of use and storage – 25 C.

**Incompatibility (Materials to avoid):** Hydrochloric acid in the concentrated form is very reactive with strong bases, metals, metal oxides, hydroxides, amines, carbonates and other alkaline materials. Incompatible with materials such as cyanides, sulfides, sulfites, and formaldehyde. In diluted form these incompatibilities may not be as severe.

**Hazardous Decomposition or By-products:** Emits toxic fumes of hydrogen chloride when heated to decomposition.

**Hazardous Polymerization:** Will not occur.

**Boiling point (C at 760mmHg) :** approx. 100 C

**Melting point (C) :** N/A

**Specific Gravity:** approx. 1.03 g/cc (calc.)

**Vapor Pressure (mmHg) :** N/A

**Vapor density (Air = 1) :** N/A

**Solubility in water:** Infinitely soluble.

## **6. Transport Information 49 CFR**

### **DOT/IATA**

**Proper Shipping Name:** Hydrochloric Acid

**Hazard Class:** 8

**Hazard Label:** Corrosive

**UN Number:** 1789

**PG Class:** 3

### **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.**