

MATERIAL SAFETY DATA SHEET

WORLD PRECISION INSTRUMENTS

941/371-1003
175 Sarasota Center Blvd
Sarasota, FL 34240

EMERGENCY NUMBER

1/800/535-5053
DATE PREPARED:
12/01/95 Rev 02

SECTION I — CHEMICAL IDENTIFICATION

Catalog Number: 501609
Name: Waveguide Cleaning Kit — Cleaning Solution

SECTION II — INGREDIENT INFORMATION

<u>Name</u>	<u>CAS NO.</u>	<u>%Wt</u>
• Triethanolamine	102-71-6	Prop.
• Water	7732-18-5	>90%

SECTION III — HAZARD DATA

<u>Hazardous Component</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
• Triethanolamine	NE	NE

Flashpoint: NONE

Flammable Limits: N/A

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

SECTION IV — REACTIVITY DATA

Stability: Stable.

Conditions to Avoid: Extreme temperatures

Incompatibility (Materials to avoid): Strong Acids and oxidizers.

Hazardous Decomposition or By-products: Emits toxic fumes of carbon monoxide and carbon dioxide.

Hazardous Polymerization: Will not occur.

SECTION V — PHYSICAL DATA

Boiling point (C at 760mmHg): 100 C

Melting point (C): N/A

Flash point: N/A

Specific Gravity: 1.1 g/cc

Vapor Pressure (mm Hg): UKN

Vapor density (Air = 1): 1.1

Solubility in water: Completely soluble.

Appearance and odor: Clear amber (concentrated form)/colorless liquid

SECTION VI — FIRST-AID MEASURES

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

Inhalation: Move to fresh air. Consult a physician if symptoms persist.

Eyes: Flush eyes immediately with large amounts of water for 15 minutes, lifting eyelids occasionally. Get medical attention.

Ingestion: Give large quantities of water than several glasses of milk. Induce vomiting. Get medical attention immediately.

Skin: Remove contaminated clothing and wash with plenty of soap and water. Overexposure to skin may cause moderate irritation, defatting and dermatitis.

SECTION VII — PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be taken in Case Material is Released or Spilled: Contain large spillage area. Small spills can be mopped up. Flush contaminated area with water.

Storage: Keep container closed when not in use. Store in cool dry place. Keep out of reach of children.

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

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.

The conditions or methods of handling, storage use and disposal of this product are beyond our control and beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT DISCLAIM LIABILITY OR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THE PRODUCT OR THE INFORMATION FURNISHED THEREWITH.

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WORLD PRECISION INSTRUMENTS
941/371-1003
175 Sarasota Center Blvd
Sarasota, FL 34240

CHEM-TREC EMERGENCY NUMBER
1/800/424-9300
DATE PREPARED:
May 12, 2001 Rev 01

SECTION I — CHEMICAL IDENTIFICATION

Catalog Number: 501609
Name: Waveguide Cleaning Kit — Solution 2

SECTION II — INGREDIENT INFORMATION

<u>Name</u>	<u>CAS NO.</u>	<u>%Wt</u>
• Methyl Alcohol	67-56-1	99+%

SECTION III — HAZARD DATA

<u>Hazardous Component</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
• Methyl alcohol	200 ppm (TWA)	200 ppm (TWA)

Label Precautionary Statements:

Warning: Flammable

Fire and Explosion Hazards: Extremely flammable. Vapor may travel considerable distances to source of ignition and flash back.

Special Firefighting procedures: In the event of fire, wear self-contained breathing apparatus and protective clothing. Prevent contact with skin and eyes.

Extinguishing data: Carbon dioxide, dry chemical powder or appropriate foam.

SECTION IV — REACTIVITY DATA

Stability: Stable.

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

Incompatibility (Materials to avoid): Acids, acid chlorides, acid anhydrides, oxidizing agents, reducing agents, alkali metals. Protect from moisture.

Hazardous Decomposition or By-products: Emits toxic fumes of carbon monoxide and carbon dioxide.

Hazardous Polymerization: Will not occur.

SECTION V — PHYSICAL DATA

Boiling point (C at 760mmHg) : 64.7 C

Melting point (C): -98 C

Flash point: 52 F 11 C

Flammable Limits in Air: Upper 36% Lower 6%

Specific Gravity: 0.791 g/cc

Vapor Pressure (mm Hg): 97.68 at 20 C 410 at 50 C

Vapor density (Air = 1): 1.1

Solubility in water: Soluble.

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

SECTION VI — FIRST-AID MEASURES

Routes of entry: Inhalation (mist) — X Skin — X Ingestion — X

Inhalation: Remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

Ingestion: Wash out mouth with water provided person is conscious. Call a physician.

Skin: Immediately flush eyes or skin with copious amounts of water for at least 15 minutes while removing contaminated clothing and/or shoes.

SECTION VII — PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be taken in Case Material is Released or Spilled: Wear appropriate NIOSH approved eye protection, or other protective clothing, gloves apron etc. Isolate area of spill. Mechanical exhaust fresh air if available. Do not breathe vapors.

Storage: Keep in tightly closed container away from incompatible materials. Keep away from open flames, sparks, or heat. Store in cool dry place.

Disposal: Burn in a chemical incinerator equipped with an afterburner and scrubber, but exert extra care in igniting as this material is highly flammable. Observe all federal, state, and local environmental regulations.

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941/371-1003
175 Sarasota Center Blvd
Sarasota, FL 34240

CHEM-TREC EMERGENCY NUMBER
1/800/424-9300
DATE PREPARED:
June 16, 2002 Rev 02

SECTION I — CHEMICAL IDENTIFICATION

Catalog Number: 501609
Name: Waveguide Cleaning Kit — Solution 3

SECTION II — INGREDIENT INFORMATION

<u>Name</u>	<u>CAS NO.</u>	<u>%Wt</u>
• Hydrochloric acid	7647-01-0	Prop
• Water	7732-18-5	>90%

SECTION III — HAZARD AND EXPLOSION DATA

<u>Hazardous Component</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
• Hydrochloric acid	5 ppm (TWA)	5 ppm (TWA)

Label Precautionary Statements:

Warning: Corrosive

Flash point: Not Flammable

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.

SECTION IV — REACTIVITY DATA

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.

SECTION V — PHYSICAL DATA

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.

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