



# MICRO-90<sup>®</sup>

## Concentrated Cleaning Solution

### 1. IDENTIFICATION

**Product Identifier:** MICRO-90<sup>®</sup> Concentrated Cleaning Solution  
**CAS Number:** Not applicable to mixtures  
**EC Number:** Not applicable to mixtures  
**REACH Registration Number:** Not applicable to mixtures  
**Chemical Formula:** Not applicable to mixtures  
**Relevant Identified Uses:** A water-based cleaning concentrate used on glass, ceramic, metals, filter membranes, and other surfaces  
**Manufacturer / Supplier:**  
 International Products Corporation  
 201 Connecticut Drive  
 Burlington, NJ 08016, USA  
 Tel: (609) 386-8770 / Fax: (609) 386-8438  
 E-mail: [mkt@ipcol.com](mailto:mkt@ipcol.com) / Website: [www.ipcol.com](http://www.ipcol.com)

#### EU Distributor:

International Products Corp.  
 Unit 5, Green Lane Business Park  
 238 Green Lane London, SE9 3TL, United Kingdom  
 Tel: 020-8857-5678 Fax: 020-8857-1313  
 E-mail: [saleseurope@ipcol.com](mailto:saleseurope@ipcol.com)

**Emergency Phone Number:** 24-Hour CHEMTREC Telephone  
 (800) 424-9300 (USA and Canada)  
 (703) 527-3887 (Calls from outside the USA)

### 2. HAZARD(S) IDENTIFICATION

The following information is provided for concentrated levels of this chemical mixture.

#### Classification of the Substance or Mixture:

Not classified; Not a dangerous mixture according to GHS.

**Risk Phrases:** Symbol: Xi / R36/38: Irritating to eyes and skin.

#### Label Elements:

**Trade Name:** MICRO-90<sup>®</sup> Concentrated Cleaning Solution

**Signal Word:** Warning

#### Hazard Statements:

H316: Causes mild skin irritation.

H320: Causes eye irritation.



#### Precautionary Statements:

P301+330: IF SWALLOWED: Rinse mouth.

P302+350: IF ON SKIN: Gently wash with soap and water.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Other Hazards:** No data available

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Synonyms:** None

**Molecular Weight:** Not applicable to mixtures

Ingredient	CAS No.	EC No.	Index No.	Range
Surfactants	Mixture	Mixture	Mixture	10 – 25%
EDTA Na4	64-02-8	200-573-9	607-428-00-2	10 – 25%
Water	7732-18-5	231-791-2	Not Classified	50 – 70%

### 4. FIRST AID MEASURES

**Inhalation:** If exposed to excessive fumes, remove to fresh air. Get medical attention if cough or other symptoms develop.

**Ingestion:** Call physician if pain or discomfort develops. Treat symptomatically.

**Skin Contact:** Remove contaminated clothing. Gently wash skin with soap and water. Get medical attention if irritation develops or persists.

**Eye Contact:** Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

### 5. FIRE-FIGHTING MEASURES

**Fire:** Not considered to be a fire hazard.

**Explosion:** Not considered to be an explosion hazard.

**Fire Extinguishing Media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special Information:** Hazardous decomposition products may be formed under fire conditions. Nature of decomposition products not known.

**Advice for Firefighters:** Wear self-contained breathing apparatus for fire-fighting if necessary.

### 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions, Protective Equipment and Emergency Procedures:** Wear appropriate personal protective equipment as specified in Section 8.

**Environmental Precautions and Methods and Materials for Containment and Cleaning Up:** Spills will present a slip hazard. Clean up spills with absorbent material or mop. Do not discharge to surface waterways. Dried MICRO-90 residue can be removed with warm water.

### 7. HANDLING AND STORAGE

**Precautions for Safe Handling and Conditions for Safe Storage, Including Any Incompatibilities:** MICRO-90 should be stored in a cool place in its original container. Recommended storage temperature is 2 – 43°C. The shelf life of MICRO-90 is five years from the date of manufacture when stored in the original sealed container at the recommended storage temperature.

**Advice on General Occupational Hygiene:** Do not eat, drink and / or smoke in work areas; wash hands after use.

**Specific End Uses:** A 1% to 2% MICRO-90 solution is routinely used in ultrasonic tanks, immersion, CIP, and hand-washing applications to clean a variety of surfaces, including manufacturing tanks and equipment, precision parts, medical devices, filter membranes, glass, ceramic, and electronic components. Optimum cleaning can be achieved using distilled water as the diluent and heating the solution. Cleaning should be followed by a thorough rinse.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure Limits:** Contains no substances with occupational exposure limit values.

**Ventilation System:** Not necessary.

**Personal Respirators:** Not necessary.

**Skin Protection:** Rubber, nitrile, or latex gloves are recommended. No additional protection is required. Common sense chemical hygiene practices should be followed.

**Eye Protection:** Safety glasses with side-shields are recommended.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Clear, colorless to pale yellow solution

**Odor:** Ammonia

**Odor Threshold:** No information found

**pH:** 9.7

**% Volatiles by volume @ 21 °C (70 °F):** < 1% (ASTM D2369-01)

**Melting Point:** ca.-8 °C (18 °F)

**Boiling Point / Boiling Range:** ca.100 °C (212 °F)

**Flash Point:** Not applicable

**Evaporation Rate (BuAc=1):** Similar to water

**Flammability:** Not applicable

**Upper / Lower Flammability or Explosive Limits:** Not applicable

**Vapor Pressure (mm Hg):** Similar to water

**Vapor Density (Air=1):** Similar to water

**Relative Density:** 1.135 g/mL

**Solubility:** Soluble

**Partition Coefficient: n-octanol / water:** Not determined

**Auto-ignition Temperature:** No information found

**Decomposition Temperature:** No information found

**Viscosity:** 10 cps

**Explosive Properties:** Not considered to be an explosion hazard

**Oxidizing Properties:** No information found

## 10. STABILITY AND REACTIVITY

**Reactivity and / or Chemical Stability:** Stable under recommended storage conditions.

**Possibility of Hazardous Reactions and Conditions to Avoid:** Chlorine-based products.

**Incompatible Materials:** Sodium Hypochlorite; Heated contact may etch Zinc and Aluminum, Copper; MICRO-90 residue may craze polycarbonate and acrylic. Do not mix with other cleaners.

**Hazardous Decomposition Products:** Hazardous decomposition products may be formed under fire conditions. Nature of decomposition products not known.

## 11. TOXICOLOGICAL INFORMATION

**Inhalation:** No data available

**Ingestion:** Non-toxic

**Skin Contact:** Mildly irritating

**Eye Contact:** Mildly irritating

**Chronic Exposure:** No data available

**Aggravation of Pre-existing Conditions:** No data available

**Specific Target Organ Toxicity - Single Exposure (Globally Harmonized System):** No data available

**Specific Target Organ Toxicity - Repeated Exposure (Globally Harmonized System):** No data available

### Numerical Measures of Toxicity:

NTP Carcinogen Database:

Ingredient	CAS No.	Known	Anticipated	IARC Category
EDTA Na4	64-02-8	No	No	None
Water	7732-18-5	No	No	None

**Acute Toxicity:** Non-toxic: Oral - rat - > 5,000 mg/kg

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** No data available

**Persistence and Degradability:**

EDTA and its salts are not biodegradable

**Bioaccumulative Potential:** No data available

**Mobility in Soil:** No data available

**Other adverse effects:** No data available

**Results of PBT and vPvB Assessment:** According to the substances' SDSs, none are PBTs or a vPvBs.

## 13. DISPOSAL CONSIDERATIONS

MICRO-90 contains an EDTA salt, which enhances the transport of pollutant metals through wastewater treatment plants. Offer surplus and non-recyclable solutions to a licensed disposal company.

## 14. TRANSPORT INFORMATION

**Land Transport ADR/RID and GGVS/GGVE (Cross Border / Domestic):**

Not regulated

**Maritime Transport IMDG/GGVSea:**

Not regulated

**Air Transport ICAO-TI and IATA-DGR:**

Not regulated

## 15. REGULATORY INFORMATION

**European Inventory of Existing Commercial Chemical Substances (EINECS)**

The components of this product are on the EINECS inventory or are exempt from inventory.

### USA

TSCA STATUS All ingredients are listed on the TSCA inventory

SARA TITLE III,302/303 EHS None

SARA TITLE III,304,HS None

SARA 311/312 None

SARA TITLE III,313 None

### CANADA

DSL / NDSL All ingredients are listed

WHMIS Classification D.2.B.

### JAPAN

Pollution Release and Transfer Register :

6.5% n-alkylbenzenesulfonic acid and its salts

(alkyl C = 10 - 14)

**Chemical Safety Assessment:** A Chemical Safety Assessment of EDTA and its salts has been prepared by its manufacturers.

## 16. OTHER INFORMATION

**Training Advice:** Wearing cotton gloves is not recommended because they allow for a sustained, occluded chemical contact with the skin. Manual and ultrasonic cleaning methods are ideally suited for MICRO-90. Most applications work using 1% to 2% MICRO-90. Heat will improve the detergency of the MICRO-90 solution. Chelant and metal recovery methods are available from the manufacturer.

**Additional Information:** The above information is believed to be accurate but International Products Corporation (IPC) does not claim it to be all inclusive. It should only be used as a guide. It is provided for the purpose of hazard communication. It does not represent any guarantee of the properties of the product.

M-90 GHS SDS (140707 M90)