MICRO-90® Concentrated Cleaning Solution

1. IDENTIFICATION

Product Identifier: MICRO-90® 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 / Website: 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

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:
Mild Eye Irritant Category 2B.

Label Elements:
Trade Name: MICRO-90® Concentrated Cleaning Solution
Signal Word: Warning

Hazard Statements:
H320: Causes eye irritation.
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Gloves and safety glasses recommended.

3. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS No.</th>
<th>EC No.</th>
<th>Index No.</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surfactants</td>
<td>Mixture</td>
<td>Mixture</td>
<td>Mixture</td>
<td>10 – 25%</td>
</tr>
<tr>
<td>EDTA Na4</td>
<td>64-02-8</td>
<td>200-573-9</td>
<td>607-428-00-2</td>
<td>10 – 25%</td>
</tr>
</tbody>
</table>

Synonyms: None
Molecular Weight: Not applicable to mixtures

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 (36–109°F). 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.

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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 ºC (70 ºF): < 1% (ASTM D2369-01)
Melting Point: ca. -8 ºC (18 ºF)
Boiling Point / Boiling Range: ca. 100 ºC (212 ºF)
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): Not applicable
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, Aluminum, Copper and Nickel; 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

Acute Toxicity: Non-toxic
Inhalation: No data available
Ingestion: Non-toxic
Skin Contact: Not an irritant
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:

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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 vPvB.

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.