



**Chemical Name:** Micro-90

**Manufacturer:** Cole-Palmer

**Container Size:** 1 qt.

**Location:** VLA

**Disposal:** Place empty container in trash. Give partial or full container to safety officer.

Approved: June 15, 2009

**NFPA**  
Flammability

0		0
1	-	0

Health      Reactivity

0 = Minimal Hazard  
4 = Severe Hazard

**MATERIAL SAFETY DATA SHEET\* (MSDS)**  
**International Products Corporation**

  
**CONCENTRATED CLEANING SOLUTION**

**HMIS**

Health – 1  
Flammability – 0  
Physical Hazards – 0  
Personal Protection – B

0 = Minimal Hazard  
4 = Severe Hazard  
B = Safety Glasses & Gloves

**1. PRODUCT AND COMPANY IDENTIFICATION**

**PRODUCT NAME** ..... MICRO-90®  
**CHEMICAL FAMILY** ..... Mixture  
**CHEMICAL USE** ..... Concentrated Cleaning Solution  
**ISSUE DATE OF MSDS** ..... June 15, 2009

**MANUFACTURER:** International Products Corporation  
 201 Connecticut Drive  
 Burlington, NJ 08016, USA  
 Tel: (609) 386-8770  
 Fax: (609) 386-8438  
 mkt@ipcol.com

**EMERGENCY TELEPHONES:**

Transportation:  
 CHEMTREC  
 (800) 424-9300  
 (Calls within USA & Canada)

(703) 527-3887  
 (Calls from outside the USA)

UK BRANCH:  
 Unit 5, Green Lane Bus. Park  
 238 Green Lane  
 London, SE9 3TL, United Kingdom  
 Tel: 020 – 8857-5678  
 Fax: 020 – 8857-1313  
 saleseurope@ipcol.com

Non-transportation:  
 Tel: (609) 386-8770  
 Fax: (609) 386-8438

**4. FIRST AID MEASURES**

**EYE CONTACT** ..... Immediately flush eyes with plenty of water. Get medical attention if irritation develops or persists.

**SKIN CONTACT** ..... Remove contaminated clothing. Wash skin with soap and water. Get medical attention if irritation develops or persists.

**INHALATION** ..... If exposed to excessive levels of fumes, remove to fresh air and get medical attention if cough or other symptoms develop.

**INGESTION**..... No specific treatment is necessary since this material is unlikely to be hazardous by ingestion. Call physician if pain or discomfort develops.

**2. COMPOSITION / INFORMATION ON INGREDIENTS**

Contains no hazardous ingredients in concentration greater than 1%.  
 Contains water, builders, and surfactants.

This MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of the product.

**5. FIRE FIGHTING MEASURES**

Nonflammable aqueous cleaner.

**FLASH POINT** .....None.

**LFL**.....Not applicable.

**UFL** .....Not applicable.

**EXTINGUISHING MEDIA** .....Use alcohol foam, carbon dioxide, or water spray to extinguish flames.

**FIRE FIGHTING INSTRUCTION**.....As in any fire, wear self-contained breathing apparatus, pressure-demand MSHA/NIOSH (approved or equivalent) and full protective gear. Water runoff may cause environmental damage. Dike and collect water used to fight fire.

**3. HAZARDS IDENTIFICATION**

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**EMERGENCY OVERVIEW**  
 Pale yellow aqueous solution with a slight ammonia odor.  
 Nonflammable aqueous solution. NFPA rating of zero.  
 No immediate hazards associated with the product.  
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**POTENTIAL HEALTH EFFECTS**

**EYE CONTACT** .....Prolonged or repeated contact may cause irritation.

**SKIN CONTACT** .....Prolonged or repeated contact may cause irritation.

**INHALATION** .....Prolonged or repeated contact may cause irritation.

**INGESTION**.....No hazard in normal industrial use.

**CARCINOGENICITY:**

**NTP** .....No ingredients are listed.  
**IARC**.....No ingredients are listed.  
**OSHA** .....No ingredients are listed.

**CHRONIC EFFECTS** .Not determined.  
**TARGET ORGANS** ....Not determined.  
**SIGNS AND SYMPTOMS** ..... Eye and skin irritation (redness or swelling)

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**POTENTIAL ENVIRONMENTAL EFFECTS**  
 None known.

**6. ACCIDENTAL RELEASE MEASURES**

Clean up spills immediately, observing precautions in Section 8 Personal Protection. Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container.

**7. HANDLING AND STORAGE**

**HANDLING** ..... Avoid contact with eyes, skin and clothing. Use in a well-ventilated area.

**STORAGE** ..... Store in a cool place in original container and protect from sunlight. Keep container closed when not in use. Use only stainless steel, polyethylene or plastic-lined containers for handling. Do not store in contact with aluminum, zinc, copper or their alloys.

**SHELF LIFE** ..... Five years from date of manufacture when stored in original sealed container at recommended storage temperature range.

**STORAGE TEMPERATURE**.....5–43°C (41–110°F)

\*ANSI Z400.1-1998 format

## 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

**ENGINEERING CONTROLS** ..... Good general ventilation should be sufficient to control airborne levels.

**RESPIRATORY PROTECTION** ..... For most situations, no respiratory protection should be needed.

**SKIN PROTECTION** ..... Wear nitrile or neoprene gloves.

**EYE PROTECTION** ..... Wear safety glasses with side shields (or goggles). Contact lenses should not be worn.

**GENERAL HYGIENE CONSIDERATIONS** ..... There are no known health hazards associated with this material when used as recommended. The following general hygiene considerations are recognized as common, good industrial hygiene practices:

- Wash hands after use and before eating.
- Avoid breathing vapors.
- Wear safety glasses and gloves.

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**EXPOSURE LIMITS** ..... Not established for product as whole.

Ingredients	CAS #	ACGIH
None established for individual components.		

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE** ..... Yellow liquid.

**ODOR** ..... Ammonia odor.

**pH (neat)** ..... ca. 9.5

**BOILING POINT** ..... ca. 100°C (212°F)

**FREEZING POINT** ..... ca. -8°C (18°F)

**SOLUBILITY IN WATER** ..... Complete

**SPECIFIC GRAVITY (water = 1)** ..... 1.135@25°C

## 10. STABILITY AND REACTIVITY

**STABILITY** ..... Stable liquid.

**HAZARDOUS POLYMERIZATION** ..... Will not occur.

**INCOMPATIBILITIES** ..... May etch aluminum, zinc, copper, and its alloys. May craze acrylic and polycarbonate if not wiped or rinsed off. Do not mix with other cleaners. Mixing with chlorine-based cleaners may produce toxic gases.

**DECOMPOSITION PRODUCTS** ..... Not determined.

## 11. TOXICOLOGICAL INFORMATION

Eye: Irritant per USA-FHSA criteria.  
Not an Irritant per OECD Guideline No. 405.

Skin: Not an irritant per USA-FHSA criteria.  
Not an irritant per OECD Guideline No. 404.

Oral: LD<sub>50</sub> is greater than 5g/kg (rats).

## 12. ECOLOGICAL INFORMATION

Contains no CFCs, ODCs, phosphates, silicates, borates, halogens, or phenols.

## 13. DISPOSAL CONSIDERATIONS

MICRO-90® Concentrated Cleaning Solution is not considered a hazardous waste under Federal Hazardous Waste Regulations 40 CFR 261. Please be advised, however, that state and local requirements for waste disposal may be more restrictive or otherwise different from federal regulations. Consult state and local regulations regarding the proper disposal of this material.

(Note: Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate.)

## 14. TRANSPORTATION INFORMATION

**A. USA**

**D.O.T. SHIPPING** ..... Not regulated.

**TECHNICAL SHIPPING NAME** ..... Liquid Detergent

**D.O.T. LABEL** ..... None.

**D.O.T. PLACARD (non-bulk)** ..... None.

**FREIGHT CLASS PACKAGE** ..... Class 55 — Liquid detergent

**PRODUCT LABEL** ..... Concentrated Cleaning Solution

**B. CANADA: TDG** ..... Not regulated.

**C. ENGLAND: APPROVED CARRIAGE LIST** ..... Not regulated.

## 15. REGULATORY INFORMATION

**A. 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 TITLE III, 313** ..... None.

**B. CANADA**

**DSL** ..... All ingredients are listed on the Domestic Substance List.

**WHMIS Classification** ..... Not controlled.

**C. EC**

**EINECS** ..... All ingredients are listed.

**RoHS Directive** ..... MICRO-90® does not contain any ingredients listed in 2002/95/EC.

**REACH Directive** ..... All ingredients comply with EC 1907/2006.

**D. CHIPS** ..... Not a significant eye irritant.  
Not a skin irritant.

All ingredients are also listed on the following inventories: Australia (AICS), Korea (ECL), Japan (ENCS), China (EICS), and Philippines (PICCS).

## 16. STATE REGULATORY INFORMATION

For details on specific requirements, you should contact the appropriate agency in your state.

## 17. OTHER INFORMATION

**PREPARED BY** ..... K. Wyrofsky,  
President

**APPROVED BY** ..... T. McGuckin,  
Vice President of Quality & Safety

**APPROVAL DATE** ..... June 15, 2009

**NOTE: All data presented here are for the full-strength product, unless otherwise noted. However, recommended usage is as a 1-2% w/w solution in water.**

**While International Products Corporation believes the information contained herein to be true and accurate, it has relied on information provided by others. International Products Corporation makes no warranties, express or implied, as to the accuracy or adequacy of the information contained herein or with respect to the results to be obtained from the use of the product. International Products Corporation disclaims all liability with respect to the use of this product, including without limitation, liability for injury to the user or third-party persons.**