

**NFPA**  
Flammability

Health 1 0 Reactivity 0

0 = Minimal Hazard  
4 = Severe Hazard

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

**MICRO<sup>®</sup> A07**  
**Citric Acid Cleaner**

**HMIS**

Health – 2  
Flammability – 0  
Reactivity – 0  
Personal Protection – B

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

**1. PRODUCT AND COMPANY IDENTIFICATION**

**PRODUCT NAME** ..... MICRO<sup>®</sup> A07  
**CHEMICAL USE** ..... Citric Acid Cleaner  
**CHEMICAL FAMILY** ..... Surfactants, citric acid  
**ISSUE DATE OF MSDS** ..... December 15, 2007

**MANUFACTURER:**

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(Calls within USA & Canada)

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(Calls from outside the USA)

Non-transportation:  
Tel: (609) 386-8770  
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**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** ..... No specific treatment is necessary since this material is unlikely to be hazardous by inhalation.

**INGESTION** ..... Get medical attention if ingested. Do not induce vomiting.

**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.

**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. Gloves and safety glasses are recommended.

**STORAGE** ..... Store in original container. Keep closed when not in use.

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

**STORAGE TEMPERATURE** ..... 2–43°C (36–110°F).

**2. COMPOSITION / INFORMATION ON INGREDIENTS**

Contains citric acid (CAS 77-92-9).

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.

**3. HAZARDS IDENTIFICATION**

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**EMERGENCY OVERVIEW**

**A clear, pale yellow solution that may cause eye or skin irritation.**

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**POTENTIAL HEALTH EFFECTS**

**EYE CONTACT** ..... Contact may cause irritation.

**SKIN CONTACT** ..... Contact may cause irritation.

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

**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** ..... Not determined.

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**POTENTIAL ENVIRONMENTAL EFFECTS**

None known.

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## 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 chemical-resistant 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** ..... Clear, pale yellow liquid.

**ODOR** ..... Mild, non-offensive.

**pH (neat)** ..... ca. 2.5

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

**FREEZING POINT** ..... ca. 0°C (32°F)

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

**SPECIFIC GRAVITY (water = 1)** ..... 1.140@25°C

## 10. STABILITY AND REACTIVITY

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

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

**INCOMPATIBILITIES** ..... Avoid acrylic, carbon steel and copper and its alloys. Do not mix with any other cleaners.

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

## 11. TOXICOLOGICAL INFORMATION

Eye: Irritant per simulated eye test (HET CAM).

Skin: Irritant per 49 CFR 173.137.

Oral: Non-toxic per 16 CFR 1500.3. LD<sub>50</sub> is greater than 5 g/kg (rats).

## 12. ECOLOGICAL INFORMATION

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

Biodegradability: The product as a whole has not been tested. According to the ingredients' MSDS, they are all biodegradable.

## 13. DISPOSAL CONSIDERATIONS

Micro® A07 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** ..... None.

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

**PRODUCT LABEL** ..... Citric acid cleaner

**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** ..... D.2.B.

**HMIRC** ..... Registration Number: 6825  
Date of filing: 10/2/06

**C. EC**

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

**EC Classification** ..... Skin and eye irritant Xi; R-36, R-38. Wear suitable gloves and eye protection.

**RoHS Directive** ..... Micro A07 does not contain any ingredients listed in 2002/95/EC.

**D. CHIPS** ..... Skin and eye irritant Xi; R-36, R-38. Wear suitable gloves and eye protection.

## 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** ..... December 15, 2007

**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.**

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