

Approved: February 1, 2007

NFPA
Flammability

Health 0 Reactivity

0 = Minimal Hazard
4 = Severe Hazard

MATERIAL SAFETY DATA SHEET* (MSDS)
International Products Corporation

CONCENTRATED CLEANING SOLUTION

DISTRIBUTED BY: COLE-PARMER INSTRUMENT COMPANY
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Toll-Free: 800/323-4340 Chicago Area (847) 549-7600
Fax: (847) 247-2929

HMIS

Health – 1
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-90®
CHEMICAL FAMILY Mixture
CHEMICAL USE Concentrated Cleaning Solution
ISSUE DATE OF MSDS February 1, 2007

MANUFACTURER: International Products Corporation
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Non-transportation:
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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 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

Ingredients	CAS Number	EEC	
		Hazard Identity	Concentration Range (w/w)
Water	7732-18-5	-----	-----
Glycine, N,N'-1,2-ethanediybis-(N-(carboxymethyl)-,tetra-sodium salt	64-02-8	Xi, R-36 R-38	less than 20%
Benzenesulfonic acid, dimethyl-, ammonium salt	26447-10-9	Xi, R-36 R-38	less than 20%
Benzenesulfonic acid, dodecyl-, cpd. with 2,2', 2''-nitrilotris (ethanol)	27323-41-7	Xi, R-36 R-38	less than 20%
Poly(oxy-1,2-ethanediyl), alpha-(undecyl)-omega-hydroxy	34398-01-1	Xi, R-36	less than 20%

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

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.

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)

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 One year 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 chemical-resistant gloves.

EYE PROTECTION Wear safety glasses with sideshields (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
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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
Not an irritant per OECD Guideline No. 404.

Oral: LD₅₀ is greater than 5g/kg (rats).

12. ECOLOGICAL INFORMATION

Contains no CFCs, 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 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.

D. CHIPS

Not a significant eye irritant.
Not a skin irritant.

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 February 1, 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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