

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME MICRO-90[®]
CHEMICAL FAMILY Mixture
CHEMICAL USE Concentrated Cleaning Solution
ISSUE DATE of MSDS July 11, 1999

MANUFACTURER: **EMERGENCY TELEPHONES:**

International Products Corporation
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Transportation:
CHEMTREC (800) 424-9300
(Calls within USA & Canada)
(703) 527-3887
(Calls outside the USA)

Nontransportation:
Tel: (609) 386-8770
Fax: (609) 386-8438

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%

3. HAZARDOUS 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.

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. Get medical attention if cough or other symptoms develop.

INGESTION Swallowing less than an ounce will not cause significant harm. For larger amounts, do not induce vomiting, but give one or two glasses of water to drink and get medical attention.

5. FIRE FIGHTING MEASURES

Nonflammable aqueous cleaner.

FLASH POINT.....None.

LFL.....Not applicable.

UFL.....Not applicable.

EXTINGUISHING MEDIAUse alcohol foam, carbon dioxide, or water spray to extinguish flames.

FIRE FIGHTING INSTRUCTION.....As in any fire, wear self-contained 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. 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)

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) 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 and zinc.
Do not mix with other cleaners. Mixing with chlorine-based cleaners may produce toxic gasses.

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: LD₅₀ is greater than 5g/kg (rats).

12. ECOLOGICAL INFORMATION

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

13. DISPOSAL CONSIDERATIONS

MICRO-90® 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.

BULK.....5600 gallons (53000 lbs.) or more - Class 9, n.o.s., UN3082, PG III, RQ

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	Triethanolamine Dodecylbenzene sulfonate (CAS #27323-41-7) RQ 1,000 pounds
SARA TITLE III, 311/312	None.
SARA TITLE III, 313	None.

B. CANADA

DSL	All ingredients are listed on the Domestic Substance List.
WHMIS Classification	Not classified.

C. EC

EINECS	All ingredients are listed.
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D. CHIPS

	Not a significant eye irritant.
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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, Vice President of Marketing
APPROVED BY	T. McGuckin, Director of Quality & Safety
APPROVAL DATE	July 11, 1999

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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