# Material Safety Data Sheet

**Effective Date:** 9/15/88

To comply with OSHA's Hazard Communication Standard 29 CFR 1910.1200

## Section I

**Manufacturer's Name**
International Products Corporation

**Address**
New York Ave. & Fuld St.

**P.O. Box**
118

**City, State**
Trenton, NJ 08601

**Telephone Number**
(609) 394-5480

**Date Prepared**
Sept. 15, 1988

**Signature of Preparer (optional)**
Charles E. Granito, Pres.

## Section II—Hazardous Ingredients/Identity Information

No MICRO ingredient present at 1% or more is contained in the SARA Title III 313 list.

For medical reference purposes the following information is provided on MICRO composition:

- **Cations:** Sodium, Ammonium (less than 1%), Triethanolammonium
- **Anions:** Ethylenediamine Tetraacetate, Linear Alkyl Aryl Sulfonates
- **Nonionics:** Polyethoxynonylphenol

**Note:** Since this product contains polyethoxylates, it may contain trace amounts of ethylene oxide (CAS #75-21-8). Ethylene oxide is listed as a potential carcinogen by OSHA, NTP, and IARC. If this product is handled as recommended in this MSDS any trace amounts of ethylene oxide that may be present are not expected to result in acute or chronic hazards. A recent test (results available on request) on MICRO could not detect ethylene oxide (detection limit 0.70 ppm), ethylene chlorohydrin (detection limit 7.0 ppm), or ethylene glycol (detection limit 19.9 ppm).

## Section III—Physical/Chemical Characteristics

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Point</td>
<td>215°F</td>
</tr>
<tr>
<td>Specific Gravity (H₂O = 1)</td>
<td>1.14</td>
</tr>
<tr>
<td>Vapor Pressure (mm Hg.)</td>
<td>NA</td>
</tr>
<tr>
<td>Melting Point</td>
<td>NA</td>
</tr>
<tr>
<td>Vapor Density (AIR = 1)</td>
<td>NA</td>
</tr>
<tr>
<td>Evaporation Rate (Butyl Acetate = 1)</td>
<td>NA</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Complete</td>
</tr>
<tr>
<td>Viscosity</td>
<td>8.2 cp</td>
</tr>
<tr>
<td>pH</td>
<td>9.7</td>
</tr>
</tbody>
</table>

**Appearance and Odor**
Light Yellow Liquid, Slight Ammonia Odor

## Section IV—Fire and Explosion Hazard Data

**Flash Point (Method Used)**
None—does not burn

**Flammable Limits**

<table>
<thead>
<tr>
<th>Flammable Limits</th>
<th>LEL</th>
<th>UEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
</tbody>
</table>

**Extinguishing Media**
None—does not burn

**Special Fire Fighting Procedure**
None

**Unusual Fire and Explosion Hazards**
None

NA = Not applicable

Based on OSHA 174, Sept., 1995
Section V—Reactivity Data

<table>
<thead>
<tr>
<th>Stability</th>
<th>Unstable</th>
<th>Conditions to Avoid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stable</td>
<td>X</td>
<td>None</td>
</tr>
</tbody>
</table>

Incompatibility (Materials to Avoid)
May etch zinc and aluminum

Hazardous Decomposition or Byproducts
Not known

Hazardous Polymerization

<table>
<thead>
<tr>
<th>May Occur</th>
<th>Conditions to Avoid</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

Section VI—Health Hazard Data

Note: All test results were obtained on undiluted product.

Recommended concentration of Micro for most applications is 2% by volume.
Copies of test results available on request.

Health Hazards (Acute and Chronic)

Eye Irritant—caused transient irritation effects in 4 of 6 rabbits. Did not affect cornea.

Skin—moderate irritant (PPI = 3.88, rabbits). No evidence of corrosivity.

Prolonged use may cause drying/chapping.

Inhalation—prolonged exposure may cause slight nose and throat irritation.

Swallowing—very large amounts could cause cramps and muscle spasms. LD₅₀ greater than 5g/kg (rats, oral)

Carcinogenicity:
Not listed
NTP?
Not listed
IARC Monographs?
Not listed
OSHA Regulated?
Not listed

Signs and Symptoms of Exposure
Redness of eyes and/or skin

Medical Conditions Generally Aggravated by Exposure
Not known

Emergency and First Aid Procedures

Eyes—wash out with water for 15 minutes—call physician

Skin—wash with soap and water; remove contaminated clothing and wash before reuse

Inhalation—remove to fresh air

Swallowing—give 2 glasses of water, call physician, do not induce vomiting. Never give anything by mouth to an unconscious person.

Note to physician: There is no specific antidote. Consider calcium gluconate IV for systemic reaction.

Treatment of overexposure should be directed at the control of symptoms and the clinical condition.

Ingestion of very large quantity could cause hypocalcemic tetany.

Section VII—Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled
Large spill—collect liquid with absorbent material and package for disposal according to local, state, and federal regulations.
Small spills—flush with water.

Waste Disposal Method
Normal sewage disposal—consult with appropriate authorities; biodegradable, pH = 9.7

Precautions to be taken in Handling and Storing
Do not store in contact with aluminum, zinc, copper, or their alloys

Other Precautions
Avoid eye contact

Section VIII—Control Measures

Respiratory Protection (Specify Type)

Not normally needed

Ventilation

<table>
<thead>
<tr>
<th>Local Exhaust</th>
<th>General industrial requirements</th>
<th>Special</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>NA</td>
<td>NA</td>
</tr>
</tbody>
</table>

Protective Gloves

Waterproof gloves

Eye Protection
Protective glasses or goggles.
As a general rule do not wear contact lenses when handling chemicals

Other Protective Clothing or Equipment

Safety eye bath should be available

Work/Hygienic Practices

Wash with soap and water after use

While International Products Corporation believes the data set forth are accurate as of the date hereof it makes no warranty with respect thereto and expressly disclaims all liability for reliance thereon. It is the user's obligation to determine the conditions of safe use of the product.