

**MATERIAL SAFETY DATA SHEET** - May be used to comply with OSHA's Hazard Communication Standard. 29 CFR 1910. 1200. Standard must be consulted for specific requirements.

**Product Name: CYTO-PAK MICRO**  
**Product ID # 75**

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**SECTION I MANUFACTURER'S INFORMATION**

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Name And Address: NAP Chemical 821 S. Chestnut Pasco, WA. 99301	Emergency Telephone Number: 509-547-8234 Number for Information : 509-547-8234 Date Prepared: January 10, 1992
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**SECTION II HAZARDOUS INGREDIENTS**

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Material Components:	% Exposure Limits In The Air	Hazard Data
	ACGIH TLV	OSHA PEL
Zinc EDTA (CAS No. 67859-51-2)	.62% N/A	N/A
Ferrous EDTA (CAS No. 7720-78-7)	.06%mg/m31(TWA)	1mg/m31(TWA)
Maganese EDTA (CAS No. 7785-87-7)	.12%5mg/m31(C)3	5mg/m33(C)
Copper EDTA (CAS No. 7758-99-8)	.12%1mg/m3	1mg/m3
Surfactant Component Linear Alcohol Ethoxylate (CAS No. 68131-39-5) 2.5		

\*\*Toxic chemical subject to the requirements of Section 313 of Title III of the Superfund Amendments and Re authorization Act of 1986 and 40 CFR Part 327.

(1) As Fe (2) As Mn (3) Ceiling

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**SECTION III PHYSICAL DATA**

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Boiling Point, 760mm Hg.	100°C	Melting Point	N/A
Specific Gravity(H2o=1)	1.19	Vapor Pressure	Not Known
Vapor Density(AIR=1)	Not Known	Solubility in H2o,% by Wt.	Approx 98%
% Volatiles By Vol.	Not Known	Evaporation Rate (Butyl Acetate=1)	Not Known
Appearance And Odor	Brown/Yellow Liquid		

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**SECTION IV FIRE AND EXPLOSION DATA**

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Flash Point ( Flash Method) - N/A	Auto ignition Temperature - N/A
Flammable Limits in Air, % By Vol.: Lower - N/A	Upper - N/A
Extinguishing Media - N/A	Special Fire Fighting Procedures - N/A
Unusual Fire And Explosion Hazard - N.A	

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**SECTION V HEALTH HAZARD INFORMATION**

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Symptoms of Overexposure Inhalation;  
May cause respiratory tract irritation, nausea, vomiting, weakness, fever, chills and loss of appetite. Chronic exposure may cause pneumonia, liver damage and neurologic damage.

Skin Contact: May cause skin irritation .

Skin Absorption: None Known

Eye Contact: May cause eye irritation .

Ingestion: Ingestion may result in nausea, vomiting, diarrhea, blood in vomitus and stools, burning pain in the mouth and throat, and abdominal pain, lethargy, confusion edema, leukocytosis, hyperglycemia, acidosis, shock , liver and kidney damage, and other gastrointestinal and neurologic symptoms and damage. Ingestion by a child of more than 60ml.(2oz.)or by an adult of more than 150ml.(5oz.)may be fatal.

Emergency And First Aid Procedures:

Eyes: Immediately flush with water for 15 minutes, lifting eyelids to flush thoroughly.

Skin: Wash thoroughly with water.

Inhalation:Remove to fresh air. If breathing is difficult, contact a physician.

Ingestion: Drink large quantities of water or milk. Follow with milk of magnesia, beaten eggs or vegetable oil. Do not induce vomiting. Contact a physician.

Suspected Cancer Agent?  - No  - Yes

This product's ingredients are not found in the lists below.

Federal OSHA  NTP  IARC  Cal/OSHA

Medical Conditions Aggravated by Exposure: Hemochromatosis.

Notes to Physician: Contains citric acid (6.8%);pH 1.7. Ingestion of more than 0.5ml. of product per kg. of body weight may result in iron toxicity.

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## SECTION VI REACTIVITY DATA

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Stability  Stable  Unstable

Incompatibility (Material to avoid) Avoid contact with strong alkaline materials such as caustic potash (potassium hydroxide) and caustic soda (sodium hydroxide). Mildly corrosive to common metals.

Hazardous Decomposition/Combustion Product - Oxides of sulfur and zinc.

Hazardous Polymerization: - N/A

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## SECTION VII SPILL, LEAK AND DISPOSAL PROCEDURES

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Steps To Be Taken If Material Is Released Or Spilled - Neutralize with dilute alkaline solution and wash down sewer if Federal, State and Local Regulations permit.

Neutralizing Chemicals - Baking soda(Sodium Bicarbonate), soda, ash or lime.

Waste Disposal Method - Follow all applicable Federal, State and local regulations

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## SECTION VIII SPECIAL PROTECTION INFORMATION

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Ventilation Requirements - Use general or local exhaust ventilation to meet TLV requirements.

Specific Personal Protective Equipment

Respiratory: None required where appropriate ventilation conditions exist. If the TLV is exceeded, a self-contained breathing apparatus is advised.

Eye: Safety Goggles.

Gloves: Acid-resistant gloves such as rubber or neoprene.

Other Clothing And Equipment: Coats, coveralls, or aprons are recommended.

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## SECTION IX SPECIAL PRECAUTIONS

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Precautionary Statements - Avoid contact with skin, eyes or clothing. Do not ingest. Avoid inhalation of mists.

Other Handling And Storage Requirements - Keep lid tightly closed. Store in a dry area, above freezing and below 105°F, out of direct sunlight and away from strong alkalis. Keep out of reach of children.

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PREPARED BY: DAVID W. BERGEVIN/ BA, P.Ag.

ADDRESS: NAP CHEMICAL  
821 S. CHESTNUT  
PASCO, WA.99301

DATE PREPARED: JANUARY 10, 1992

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