

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.

U.S. Department of Labor

Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072



IDENTITY (As Used on Label and List)
Cytology Fixative (CF-632 or CF-4040A/B/C)

Note: Blank spaces are not permitted. If any item is not applicable, or no
information is available, the space must be marked to indicate that.

Section I

Manufacturer's Name
Medical Packaging Corporation
Address (Number, Street, City, State, and ZIP Code)
941 Avenida Acaso

Emergency Telephone Number
Chemtrex (800) 424-9300
Telephone Number for Information
(805) 388-2383

Camarillo, CA 93012-8700

Date Prepared
March 9, 1992 (Revision 2-November 4, 1997)
Signature of Preparer (optional)

Section II — Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
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CYTOTOLOGY FIXATIVE Components include:

CAS # 64-17-5

CHEMICAL NAME: Ethyl Alcohol, Denatured, 95%

TRADE NAME: Ethanol

CHEMICAL FAMILY: Alcohol

FORMULA: $\text{CH}_3\text{CH}_2\text{OH}$

CHEMICAL NAME: Polyethylene Glycol

TRADE NAME: Carbowax PEG 1000

CHEMICAL FAMILY: Oxyalkylene Polymer

FORMULA: $\text{HO} - (\text{CH}_2\text{CH}_2\text{O})_n\text{H}$

HAZARD RATING:	HEALTH	FLAMMABILITY	REACTIVITY
	1	3	0

Cannot be made non-poisonous!

Section III — Physical/Chemical Characteristics

Boiling Point 760 mm Hg (°C)	79.4°C	Specific Gravity ($\text{H}_2\text{O} = 1$) @ 20°C	0.81
Vapor Pressure (mm Hg.) 19°C	40 mm Hg	Melting Point (°C)	32-36°C
Vapor Density (AIR = 1)	1.59	Evaporation Rate (Butyl Acetate = 1)	3.3

Solubility in Water
(% by wt. at 20°C) Miscible

Appearance and Odor
Clear, colorless liquid, characteristic odor

Section IV — Fire and Explosion Hazard Data

Flash Point (Method Used) 70°F (cc)	Flammable Limits (in air, % by volume)	LEL 3.3 (Ethanol)	UEL 19.0 (Ethanol)
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Extinguishing Media Apply alcohol-type or all-purpose-type foams by manufacturers' recommended techniques for large fires. Use CO_2 or dry chemical media for small fires.

Special Fire Fighting Procedures

Wear self-contained breathing apparatus. Do not direct a solid stream of water or foam into hot, burning pools; this may cause frothing or increase fire intensity.

Unusual Fire and Explosion Hazards
None

Section V — Reactivity Data

Stability	Unstable	Conditions to Avoid Heat, sparks, open flame
	Stable X	

Incompatibility (Materials to Avoid)

Oxidizers, concentrated nitric & sulfuric acids, aldehydes, halogens

Hazardous Decomposition or Byproducts

Burning can produce carbon monoxide or carbon dioxide.

Hazardous Polymerization	May Occur	Conditions to Avoid
	Will Not Occur X	None

Section VI — Health Hazard Data

Route(s) of Entry:	Inhalation? X	Skin? X	Ingestion? X
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Health Hazards (Acute and Chronic)

Threshold Limit Value:

TXDS: orl-hmn LDLo: 500 mg/kg

OSHA std-air TWA 1000ppm

orl-hmn TDLo: 256 gm/kg/12w*

*Toxic effects on endocrine glandular systems.

Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
The material is not listed (IARC, NTP, OSHA) as a cancer causing agent.			

Signs and Symptoms of Exposure Eye irritation on contact; may defat skin after prolonged contact.
Inhalation is narcotic in high concentrations, causing headache and dizziness.

Blindness and death on ingestion.

Medical Conditions Overexposure will cause drying of skin.
Generally Aggravated by Exposure

Emergency and First Aid Procedures Eyes: flush with cold water 15 minutes; get medical assistance.
Skin: flush with water; wash thoroughly with soap/water. Inhalation: remove to fresh air; get medical assistance. Ingestion: drink 1-2 glasses of water and induce vomiting if conscious; get medical assistance.

Section VII — Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled

Eliminate all sources of ignition. Small spills should be flushed with large quantities of water. Large spills should be collected for disposal.

Waste Disposal Method

DOT Flammable Liquid. Waste disposal to be determined in compliance with all current local, state and federal regulations.

Precautions to Be Taken in Handling and Storing

Keep containers closed. Store in cool, well-ventilated area away from sources of ignition.

Normal common good manufacturing practice should be followed in handling and storage.

Other Precautions

Do not take internally. Do not get in eyes. Avoid prolonged or repeated breathing of vapor or contact with skin.

Section VIII — Control Measures

Respiratory Protection (Specify Type)

Provide adequate general mechanical and local exhaust ventilation.

Ventilation	Local Exhaust X	Special
	Mechanical (General)	Other

Protective Gloves
PVC-coatedEye Protection
Safety glasses

Other Protective Clothing or Equipment

Wear fresh air mask in confined area. Use in hood.

Work Hygienic Practices

Wash thoroughly after handling. Eye wash and safety equipment should be readily available.