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## MATERIAL SAFETY DATA SHEET

### Glucose Lemon and Grape Flavors

Revision Date: 05-02-2007

#### SECTION 1: PRODUCT IDENTIFICATION

Product Name	Glucose
Common Name/Trade Name	NA
Manufacturer	Paddock Laboratories, Inc.
Synonyms	Dextrose Solution (100 gm/180 mL)
Chemical Name	NA
Chemical Formula	Mixture

#### SECTION 2: COMPOSITION AND INGREDIENTS

CHEMICAL NAME	CAS#	%	OSHA PEL	ACGIH TLV	IDLH
Dextrose Anhydrous	50-99-7	40	NA	NA	NA
Citric Acid USP	77-92-9	<1	NA	NA	NA
Methylparaben NF	99-76-3	<1	NA	NA	NA
Propylparaben NF	94-13-3	<1	NA	NA	NA
Purified Water USP	NA	>50	NA	NA	NA
Sodium Citrate USP	68-04-2	<1	NA	NA	NA
Glycerin USP	56-81-5	>1	NA	NA	NA
Carboxymethylcellulose Sodium USP	9004-32-4	>1	NA	NA	NA
Potassium Sorbate NF		<1	NA	NA	NA
*Lemon Flavor	NA	<1	NA	NA	NA
*Grape Flavor	NA	<1	NA	NA	NA

\*Lemon flavor is present only in Lemon flavored Glucose. Grape flavor is present only in Grape flavored Glucose.

### SECTION 3: HAZARDS IDENTIFICATION

Potential Acute Health Effects	NA
Potential Chronic Health Effects	Hyperglycemia may develop.
Pregnancy Comments	NA

### SECTION 4: FIRST AID MEASURES

Skin Exposure	Wash with soap and water.
Eye Exposure	Flush with water for 15 minutes.
Inhalation	None normally required.
Ingestion	Not normally hazard in small doses.

### SECTION 5: FIRE / EXPLOSION HAZARDS & FIREFIGHTING MEASURES

Flammability of the Product	NA
Auto-ignition Temperature	NA
Flash Points	NA
Flammable Limits (in air by volume, %)	Lower: NA                      Upper: NA
Fire Extinguishing Equipment	Use extinguishing agent suitable for type of surrounding fire. Water Spray: OK Foam: as appropriate for surrounding conditions. Carbon Dioxide: OK Dry Chemical: OK Other: Any "ABC" Class
Unusual Fire and Explosion Hazards	May produce toxic fumes if heated to decomposition.
Explosion Hazards in presence of Various substances	NA
Firefighting Procedures	Fire fighters should wear full protective gear including self-contained breathing apparatus.

### SECTION 6: SPILL AND LEAK PROCEDURES

Spills	Wear rubber gloves and safety glasses. Wash spill area with soap and water.
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#### SECTION 7: HANDLING AND STORAGE

Work and Hygiene Practices	Do not eat, drink, or smoke near this material. Wash any contaminated clothing before reuse. Avoid wearing contact lenses when working with this material.
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Storage and Handling Practices	Avoid exposure to heat or freezing. Store in cool, dry place.
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#### SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls	NA
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##### Personal Protection

Respiratory Protection	None normally required.
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Eye Protection	Safety glasses.
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Hand Protection	Rubber gloves.
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Body Protection	Appropriate laboratory apparel.
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#### SECTION 9: PHYSICAL / CHEMICAL PROPERTIES

Physical state and appearance	Clear, colorless to light yellow, viscous gel. Product has either a lemon or grape taste.
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Molecular Weight	NA
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Boiling Point	NA
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Vapor Density (AIR=1)	NA
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Vapor Pressure (mm Hg)	NA
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Melting/Freezing Point	NA
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pH	4.0 - 4.6
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Water Solubility	Soluble
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Specific Gravity (Water =1)	1.10-1.30
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Water Reactivity	NA
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Volatility	NA
Odor	Lemon Flavored Glucose: Slight lemon odor. Grape Flavored Glucose: Slight grape odor.

**SECTION 10: STABILITY AND REACTIVITY**

Stability	Stable.
Incompatible Temperature	None known.
Incompatible Materials	None known.
Conditions of Instability	NA
Hazardous Polymerization	Will not occur.
Hazardous Decomposition	May produce toxic fumes if heated to decomposition.
Conditions to Avoid	NA

**SECTION 11: TOXICOLOGICAL INFORMATION**

Toxicity	LD <sub>50</sub> : NA
Suspected Cancer Agent	No

**SECTION 12: ECOLOGICAL INFORMATION**

Environmental Stability	NA
Ecotoxicity	NA
Products of Biodegradation	NA
Special Remarks	NA

**SECTION 13: WASTE DISPOSAL**

Dispose of material according to local, state, federal and environmental disposal regulations or company operating procedures.

**SECTION 14: TRANSPORTATION INFORMATION**

DOT classification	NA
Identification	NA

DOT Label(s) Required	NA
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**SECTION 15: REGULATORY INFORMATION**

SARA	NA
Federal and State Regulations	NA
U.S. TSCA Inventory Status	NA

**SECTION 16: OTHER INFORMATION**

DEFINITIONS OF ABBREVIATIONS USED:

ACGIH	American Conference of Governmental Industry Hygienists
CAS	Chemical Abstract Service
IARC	International Agency for Research on Cancer
IDLH	Immediately Dangerous to Life or Health Level
LC <sub>50</sub>	Medial Lethal Concentration
LD <sub>50</sub>	Medial Lethal Dose
NA	Not Available
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
SARA	Superfund Amendments and Reauthorization Act
STEL	Short Term Exposure Limit
TLV	Threshold Limit Value

**SECTION 17: DISCLAIMER**

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