

MATERIAL SAFETY DATA SHEET

GLUTOSE

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DATE PREPARED: 06-20-92 BY: Patrick L. Johnson

SECTION 1 - PRODUCT IDENTIFICATION AND HAZARDOUS COMPONENTS

PRODUCT: Glucose - Oral Glucose Gel

SYNONYMS: 40% Dextrose Gel

MOLECULAR FORMULA: Mixture.

MOLECULAR WEIGHT: N/A

CHEMICAL FAMILY: N/A

| <u>INGREDIENT (CAS #)</u> | <u>%</u> | <u>OSHA PEL</u> | <u>ACGIH TLV</u> |
|------------------------------|----------|-----------------|------------------|
| Dextrose Anhydrous (50-99-7) | 40 | N/A | N/A |
| Glycerin (56-81-5) | 5 | N/A | N/A |
| Lemon flavor | 2.4 | N/A | N/A |
| Cellulose gum | 1 | N/A | N/A |

Remainder of ingredients are present at less than 1% and are not hazardous.

SECTION 2 - PHYSICAL AND CHEMICAL CHARACTERISTICS

BOILING POINT: N/A VAPOR PRESSURE: N/A

MELTING POINT: N/A VAPOR DENSITY: N/A

SPECIFIC GRAVITY: N/A EVAPORATION RATE: N/A
(WATER = 1) (BUTYL ACETATE = 1)

WATER SOLUBILITY: Soluble. WATER REACTIVE: No.

APPEARANCE AND ODOR: Clear, colorless, viscous gel with small bubbles throughout. Sweet lemon taste and slight lemon odor.

SECTION 3 - FIRE AND EXPLOSION DATA

FLASH POINT (METHOD): N/A AUTOIGNITION TEMPERATURE: N/A

FLAMMABLE LIMITS: LOWER: N/A UPPER: N/A

EXTINGUISHING MEDIA: Water spray, carbon dioxide, dry chemical, foam as appropriate for surrounding fire conditions.

SPECIAL FIRE FIGHTING PROCEDURES: Fire fighters should wear full protective gear including self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS: May produce toxic fumes if heated to decomposition.

SECTION 4 - REACTIVITY HAZARD DATA

STABILITY: Stable (X) Unstable ()

INCOMPATIBILITY (MATERIALS TO AVOID): Heat.

HAZARDOUS DECOMPOSITION PRODUCTS: May produce toxic fumes if heated to decomposition.

HAZARDOUS POLYMERIZATION: May Occur () Will Not Occur (X)

SECTION 5 - HEALTH HAZARD DATA

TOXICITY: No toxicity data available for this material, however, toxicity is believed to be extremely low. Allergic reactions may develop in a few rare cases.

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| CARCINOGEN LISTED BY: | NTP | Yes () | No (X) |
| | IARC | Yes () | No (X) |
| | OSHA | Yes () | No (X) |
| | Other | Yes () | No (X) |

ROUTES OF ENTRY: Ingestion, contact.

SIGNS AND SYMPTOMS OF OVEREXPOSURE:

INHALATION: Not normally an inhalation hazard.

EYE CONTACT: May cause irritation.

SKIN CONTACT: May cause irritation.

INGESTION: May cause irritation of the gastrointestinal tract, nausea, vomiting, and/or allergic reaction.

CHRONIC EFFECTS OF OVEREXPOSURE: Hyperglycemia may develop.

MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE: Hyperglycemia, diabetes, glucose-galactose intolerance. Dextrose tolerance may be impaired in patients with renal failure.

EMERGENCY FIRST AID PROCEDURES:

INHALATION: None normally required.

EYE CONTACT: Flush with water for 15 minutes, lifting eyelids occasionally. If irritation develops or persists, seek medical attention.

SKIN CONTACT: Wash with soap and water. If irritation develops or persists, seek medical attention.

INGESTION: Not normally a hazard in small doses, however if a large dose is consumed, or adverse or allergic reactions occur, seek medical attention immediately.

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| SECTION 6 - CONTROL AND PROTECTIVE MEASURES |
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RESPIRATORY PROTECTION: None normally required.

PROTECTIVE GLOVES: Rubber.

EYE PROTECTION: Safety glasses or goggles recommended.

VENTILATION: Normal room ventilation is usually adequate.

OTHER PROTECTIVE EQUIPMENT: Appropriate laboratory apparel.

HYGIENIC WORK 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 due to the possibility of increased severity of eye damage.

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| SECTION 7 - HANDLING AND STORAGE PRECAUTIONS |
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HANDLING PRECAUTIONS: No special precautions required.

MSDS - Glucose Gel

STORAGE PRECAUTIONS: Avoid exposure to heat or freezing. Store in a cool, dry place.

OTHER PRECAUTIONS: None.

SECTION 8 - SPILL AND DISPOSAL PROCEDURES

STEPS TO BE TAKEN IN CASE OF SPILL OR DISCHARGE: Wear rubber gloves and safety glasses. Wash spill area with soap and water.

WASTE DISPOSAL METHOD: Dispose of in accordance with all applicable local, state, federal, and environmental regulations.

SECTION 9 - DISCLAIMER

The information contained in this Material Safety Data Sheet has been compiled from reliable sources and is believed to be correct as of the date issued. It is the responsibility of the user to determine the appropriateness and applicability to their situation. Paddock Laboratories, Inc. disclaims any expressed or implied warranty as to the accuracy of the above information and shall not be held liable for any direct, incidental, or consequential damages from use or reliance on the above information.

DEFINITIONS OF ABBREVIATIONS USED:

ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstract Service

IARC: Internal Agency for Research on Cancer

IDLH: Immediately Dangerous to Life or Health level

LC50: Median Lethal Concentration

LD50: Median Lethal Dose

N/A: Not available

NTP: National Toxicology Program

OSHA: Occupational Safety and Health Administration

PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit

TLV: Threshold Limit Value