



# UNITECH SCIENTIFIC LLC

G/F UniTab Reagent MSDS GF

## EC-MATERIAL SAFETY DATA SHEET (according 91/155/EWG)

### 1. CHEMICAL IDENTIFICATION and COMPANY CONTACT INFORMATION

Product trade name:	D-Glucose/Fructose UniTab-Reagent	Supplier:	Unitech Scientific LLC
Product No. :	GF		19912 Corby Av
Field of Application:	Food analysis		Lakewood, CA 90715, USA
Date of Issue:	03-2008	Information, Operations:	562 924-5150
Date of Revision:	30 Apr 2011	Information in case of Emergency:	562 924-5150

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

The product described is a pure substance: no

Chemical Characterization:	As below
(Dangerous) Components:	None in the amounts used
GF Tablets	Contains no risk components
GF Trigger Enzyme	Contains no risk components
D-Glucose Std	Designation: Sodium azide Content<0.1% Kb 1: T+ Kb 2: N Kb 3: N/A
D-Fructose Std	Contains no risk components

### 3. HAZARD IDENTIFICATION

Based on the concentrations in the composition, this is not a hazardous product in terms of directive 00/45/EC

### 4. FIRST AID MEASURES

If inhaled:	Remove to fresh air
In case of skin contact:	Flush with copious amount of water
In case of contact with eyes:	Flush with copious amount of water while separating the eyelids with fingers. If irritations appear and persist, call a physician
If swallowed:	Flush with copious amount of water. Call a physician

### 5. FIRE FIGHTING

Extinguishing media: Water, CO<sub>2</sub>, foam, powder

### 6. SPILLAGE, ACCIDENTAL RELEASE

Personal precautions:	Avoid swallowing; do not store together with food
Environmental precautions:	Avoid release into sewers
Procedures for clean-up/absorption:	Sweep up with cellulose and hold for waste disposal

### 7. HANDLING AND STORAGE

Handling:	No special requirements
Storage:	Dry. At +2°C to +10° C

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Threshold value for maintenance of industrial health and safety standards:  
Application of minimum protective standards is mandatory

Personal protection: Protection wear according to national laboratory regulations are sufficient for personal safety (coat, safety goggles, shoes, disposable (latex) gloves. Wash hands after finishing work.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	GF Tablets, NAD/ATP/Hexokinase-Buffer, dry solid GF Trigger, PGI, HK/G-6PDH, opalescent solutions Standards, aqueous solution
Color:	Tablets, white Solutions, colorless or opalescent-white
Odor:	no data available
pH:	between pH 6 - 8
Boiling point/-range, Vapor pressure, Relative density:	not determined
Flammability:	not flammable
Explosive Properties:	not explosive
Solubility in water:	water soluble

**10. STABILITY AND REACTIVITY**

Avoidable conditions & substances, Dangerous decomposition products: nothing known

Further declarations: none

**11. TOXICOLOGICAL INFORMATION**

Toxicity data: Sodium azide (toxicological determining component)  
 TDLo (oral, men): 0.71mg/kg  
 TD50 (oral, rat): 27 mg/kg  
 LD50 (dermal, rabbit): 20 mg/kg

Further toxicological effects statement: The components in the preparation are used in such low concentrations that with proper handling and use, no toxicological effects are expected.

**12. ECOLOGICAL INFORMATION**

Ecotoxicological effects: Quantitative data of the ecological impact of this composition are not known  
 Biological degradability: Not known  
 Biological effects: Sodium azide: Azides are toxic for water organisms  
 Fish: *Lepomis macrochirus* toxic from 1.5 ppm in 24 hrs  
 Acute ca. toxicity for invertebrates: 5 mg/L  
 Acute toxicity for cold blooded animals: 1 mg/L

Referring to this data, especially the presence of sodium azide (present concentration in this product is 0.1% in standard), this component should not get into environmental waters, sewage or soil. Quantities present pose a minor hazard. In case of accidental release flush or dilute with copious amounts of water.

**13. DISPOSAL CONSIDERATIONS**

Product: There are no uniform regulations for disposal of chemicals within the EC. Contact a licensed professional waste disposal service for disposal of this material. Observe all federal, state and local environmental regulations.

Packaging: Dispose according to the regulations of the public authorities. Contaminated packaging has to be treated like the composition. If not otherwise regulated by public authorities, non-contaminated packaging can be treated like household waste or brought to recycling procedures.

**14. TRANSPORT INFORMATION**

Land transport: GGVS, GGVE, ADR, RID  
 class, designation: ---  
 Inland ship transport: AND, ADN  
 class: ---  
 Ocean shipping transport: IMDG, GGVSee  
 class, EmS, MFAG, designation: ---  
 Air transport: ICAO, IATA  
 class, designation: ---

This product is not subject to current regulations for transportation of hazardous goods (GGVS/ADR, GGVE/RID, IMDG, IATA/ICAO).

**15. REGULATORY INFORMATION**

Indication following EC directives: Symbols, risk regulations, safety regulations: ---

Note: This product must be labeled in accordance with EC directive 67/548/EEC and 99/45/EC.

**16. OTHER INFORMATION**

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