



# UNITECH SCIENTIFIC LLC

LLA UniFlex Reagent SDS LLA-F

## SAFETY DATA SHEET (HCS - 29 CFR 1910.1200(g))

### 1. CHEMICAL IDENTIFICATION and COMPANY CONTACT INFORMATION

Product trade name:	L-Lactic Acid UniFlex Reagent	Supplier:	Unitech Scientific LLC
Product No. :	LLA F		12026 Centralia Rd, Ste H
Recommended Use:	Food analysis		Hawaiian Gardens, CA 90716, USA
Restrictions on Use:	N/A		
Date of Issue:	12-2002	Information, Operations:	562 924-5150
Date of Revision:	01 Aug 2015	Information in case of Emergency:	562 924-5150

### 2. HAZARD IDENTIFICATION

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

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

The product described is a pure substance: no

Chemical Characterization:	As below
(Dangerous) Components:	None in the amounts used
Chromogen Diluent:	Contains no risk components
Chromogen/NAD Solution:	Contains no risk components
LDH Enzyme:	Contains no risk components
LLA Standard	Designation: Sodium azide Content<0.1% Kb 1: T+ Kb 2: N Kb 3: N/A CAS-No.: 26628-22-8 Risk reg. comp.: 28-32-50/53

### 4. FIRST AID MEASURES

Symptoms:	No symptoms expected
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. SPIGE, 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:	ML Buffer Glycylglycine, clear liquid NAD, clear liquid GOT & MDH Enzymes, clear or opalescent liquid solutions/suspensions
Color:	ML Buffer and NAD, colorless GOT Enzyme, yellow; MDH Enzyme, colorless
Odor:	no data available
pH:	Glycylglycine-buffer: 10.0; others not determined
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 HCS directives:

Symbols, risk regulations, safety regulations: ---

Note: This product must be labeled in accordance with HCS - 29 CFR 1910.1200(g).

**16. OTHER INFORMATION**

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