



UNITECH SCIENTIFIC LLC

LMA UniTab Reagent SDS LMA

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

1. CHEMICAL IDENTIFICATION and COMPANY CONTACT INFORMATION

Product trade name:	L-Malic Acid UniTab Reagent	Supplier:	Unitech Scientific LLC
Product No. :	LMA		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
MA Reagent Tablets:	Contain no risk components
MA Buffer:	Contains no risk components
MA Trigger Enzyme:	Contains no risk components
LMA 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, CO₂, 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:	MA Reagent Tablets, dry solid MA Buffer DEA, Trigger Enzyme GOT, MDH, clear/opalescent, solutions/suspension
Color:	MA Reagent Tablets, white MA Buffer, colorless, MA Trigger Enzyme yellow
Odor:	no data available
pH:	MA 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 HCS. 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, ADNR
 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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