



# UNITECH SCIENTIFIC LLC

## Acetic Acid UniFlex Reagent SDS AA-F

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

#### 1. CHEMICAL IDENTIFICATION and COMPANY CONTACT INFORMATION

Product trade name: Acetic Acid UniFlex Reagent	Supplier: Unitech Scientific LLC
Product No. : AA-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 per 29 CFR 1910.1200(g)

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

The product described is a pure substance: no

Chemical Characterization:	As below
(Dangerous) Components:	None in the amounts used
TEA Buffer:	Contains no risk components
CoEnzyme Powder:	Contains no risk components
MDH/CS Solution:	Contains no risk components
ACS Enzyme Powder and Diluent:	Contains no risk components
AA 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
Treatment 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: Not Available

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:	TEA Buffer, clear liquid CoEnzyme Powder(CoA, ATP, NAD) and ACS Powder, dry, white MDH/CS Enzyme, opalescent solution
Color:	TEA Buffer, MDH/CS, and Standard, colorless Powders, white
Odor:	no data available
pH:	TEA Buffer: 8.4; 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. 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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