



## Safety Datasheet (SDS)

### 1. Identification of the substance/preparation and of the company/undertaking

#### 1.1 Product Identifiers

**Product Catalog #:** FEC4001  
**Product Name:** AssayLite™ Human Ceruloplasmin Fluorescent Immunoassay Kit

#### 1.2 Relevant Identified Uses

**Recommended Use:** Intended for the *in vitro* determination of samples for **Research Use Only**. This product is not intended for use in diagnostic procedures.

#### 1.3 Details of Supplier of this SDS

**Supplier Information:** Assaypro LLC  
3400 Harry S Truman Blvd  
St. Charles, MO 63301, USA

Phone: +1-636-447-9175  
Phone: +1-636-447-9875  
Fax: +1-636-395-7419  
Email: [support@assaypro.com](mailto:support@assaypro.com)

**1.4 Emergency Phone Number:** +1-636-447-9175

### 2. Hazard Identification

#### 2.1 Classification of Substance/Mixture

Wash Buffer Concentrate contains Sodium Azide (0.02%)\*

EIA Diluent Concentrate contains Sodium Azide (0.01%)\*

Fluorescent Probe contains Sodium Azide (0.02%)\*

*\*Not considered hazardous in this concentration. This classification was made according to latest edition of the Globally Harmonized System of Classification and Labeling Chemicals*

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Not considered hazardous at this concentration.

Classification in accordance with Regulation EC No. 1272/2008 [CLP/GHS]

Not considered hazardous at this concentration.

#### 2.2 Label Elements

Hazard Pictograms: N/A

Signal Word: N/A

Hazard Statement: N/A

Precautionary Statements: N/A

#### 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

N/A

### 3. Information on Ingredients

#### Description:

Wash Buffer Concentrate: Aqueous, proprietary solution that contains 0.02% Sodium Azide

EIA Diluent Concentrate: Aqueous, proprietary buffer solution that contains 0.01% Sodium Azide

Fluorescent Probe: Lyophilized, proprietary product that contains 0.02% Sodium Azide

#### 3.1 Substance

Not applicable.

#### 3.2 Mixture

| Contains                         | CAS No.    | EC-No.    | Index-No.    | Concentration   |
|----------------------------------|------------|-----------|--------------|-----------------|
| Proprietary Product              | N/A        | N/A       | N/A          | 99.98 – 99.99 % |
| Sodium Azide (NaN <sub>3</sub> ) | 26628-22-8 | 247-852-1 | 011-004-00-7 | 0.02 – 0.01 % * |

\* Not hazardous at this concentration.

### 4. First Aid Measures

#### 4.1 Description of First Aid Measures

**General Information:** Consult a physician if you feel unwell. Show SDS when necessary.

**After Inhalation:** Remove to fresh air, seek medical advice.

**After Skin Contact:** Wash off with plenty of soap and water. Remove contaminated clothing. Seek medical attention if needed.

**After Eye Contact:** Rinse with water for several minutes. Seek medical attention immediately.

**After Swallowing:** DO NOT induce vomiting. Rinse mouth. Consult physician.

#### 4.2 Most Important Symptoms & Effects

The most important known symptoms and effects are described in the labeling (see Section 2.2) and/or in Section 11.

#### 4.3 Indication of Any Immediate Medical Attention/Special Treatment Needed

No data available.

### 5. Fire Fighting Measures

#### 5.1 Extinguishing Media

Use dry powder.

#### 5.2 Special Hazards Arising from Substance of Mixture

Dangerous decomposition is not anticipated.

#### 5.3 Advice for Firefighters

Wear self-contained breathing apparatus if necessary

### 6. Accidental Release Measures

## 6.1 Personal Safety Precautions

Use appropriate personal protective equipment to prevent contamination of skin, eyes, and personal clothing.

## 6.2 Environmental Precautions

Keep away from drains. Discharge into the environment should be avoided.

## 6.3 Methods and Materials for Containment/Cleanup

Soak up spilled liquid with inert absorbent material and dispose of as hazardous waste. Keep in suitable closed containers for disposal.

## 6.4 Reference to Other Sections

N/A

# 7. Handling and Storage

## 7.1 Precautions for Handling

Avoid contact with skin and eyes.

## 7.2 Conditions for Safe Storage (Including Incompatibilities)

Keep container tightly closed in a dry and well-ventilated place. Never allow product to get in contact with water during storage. Do not store near acids. See product labeling for specific storage temperature requirements.

## 7.3 Specific End Use

Use as a laboratory reagent, for scientific research and development.

# 8. Exposure Controls/Personal Protection

## 8.1 Control Parameters

| Chemical Identity                  | Type    | Exposure Limit Values      | Source  |
|------------------------------------|---------|----------------------------|---|
| Sodium Azide<br>CAS No. 26628-22-8 | Ceiling | 0.100000 ppm               | US. NIOSH Recommended Exposure Limits                                   |
|                                    | Ceiling | 0.300000 mg/m <sup>3</sup> | US. NIOSH Recommended Exposure Limits – Potential for Dermal Absorption |
|                                    | Ceiling | 0.110000 ppm               | US. ACGIH Threshold Limit Values – Potential for Dermal Absorption      |

## 8.2 Exposure Controls

**Appropriate Engineering Controls:** Avoid contact with skin, eyes, and clothing. Wash hands before breaks and immediately after handling product.

**General Information:** Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.

**Respiratory Protection:** Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Skin Protection:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Eye Protection:** Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

## 9. Physical and Chemical Properties

### 9.1 Information

|                    |  |                           |  |
|--------------------|--|---------------------------|--|
| Physical State     | Liquid (Wash Buffer, Diluent)<br>Lyophilized (Fluorescent Probe) | Color                     | Colorless to cloudy (Wash Buffer)<br>Colorless to Pink (Fluorescent Probe) |
| Odor               | Not available  | Odor Threshold            | Not available  |
| pH                 | Not available  | Melting/Freezing Point    | Not available  |
| Boiling Point      | Not available  | Boiling Range             | Not available  |
| Flash Point        | Not available  | Evaporation Rate          | Not available  |
| Flammability       | Not Available  | Upper/Lower Flammability  | Not Applicable   |
| Explosive Limits   | Not Available  | Vapor Pressure            | Not available  |
| Vapor Density      | Not Available  | Relative Density          | Not available  |
| Solubility         | Soluble in water   | Partition Coefficient     | Not Available  |
| Auto-Ignition Temp | Not available  | Decomposition Temperature | Not available  |
| Viscosity          | Not Available  |                           |  |

### 9.2 Other Information

N/A

## 10. Stability and Reactivity

### 10.1 Reactivity

No relevant information available.

### 10.2 Chemical Stability

Stable under recommended storage conditions.

### 10.3 Possibility of Hazardous Reactions

No relevant information available.

### 10.4 Conditions to Avoid

An explosion occurred when a mixture of sodium azide, methylene chloride, dimethyl sulfoxide, and sulfuric acid were being concentrated on a rotary evaporator.

### 10.5 Incompatible Materials

Halogenated hydrocarbon, Metals, Acids, Acid chlorides, Hydrazine, dimethyl sulfate, Inorganic acid chlorides

### 10.6 Hazardous Decomposition Products

Hazardous decomposition products formed under fire conditions. - Sodium oxides

Other decomposition products – no data available.

In the event of a fire, see Section 5

## 11. Toxicological Information

### 11.1 Information on Toxicological Effects

#### Acute toxicity:

LD50 Oral – rat: 72 mg/kg

Inhalation: No data available.

**Dermal:** No data available.

**Skin corrosion/irritation**

May be harmful if absorbed through the skin; may cause skin irritation.

**Serious eye damage/eye irritation:**

May cause eye irritation.

**Respiratory or skin sensitization:**

No sensitizing effects known.

**Carcinogenicity:**

No effect known

**Reproductive toxicity:**

No toxic effect known.

**Specific target organ toxicity - single exposure:**

No data available.

**Specific target organ toxicity - repeated exposure:**

No data available.

**Aspiration hazard:**

May be harmful if inhaled; may cause respiratory tract irritation.

**Additional Information:**

RTECS not available.

**11.2 Information on Other Hazards**

N/A

## 12. Ecological Information

**12.1 Ecotoxicity**

Toxicity to fish: Mortality LC50 – *Pimephales promelas* (fathead minnow) – 5.46 mg/L – 96 h (OECD Test Guideline 203)

Toxicity to algae: Static test EC50 - *Pseudokirchneriella subcapitata* – 0.35 mg/L – 96 h (OECD Test Guideline 201)

**12.2 Persistence and degradability**

No data available.

**12.3 Bioaccumulative potential**

No data available.

**12.4 Mobility in soil**

No data available.

**12.5 Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

**12.6 Endocrine Disrupting Properties**

No data available.

**12.7 Other adverse effects**

Sodium azide is toxic to aquatic organisms and may cause long term adverse effects in the aquatic environment

## 13. Disposal Considerations

### 13.1 Waste treatment methods

**Product:** Dispose of waste in accordance to applicable national, regional, or local regulations.

**Contaminated packaging:** Dispose of as unused product.

**Special precautions:** Avoid dispersal of spilt material to soil, waterways, drains and sewers.

## 14. Transport Information

|  | Land Transport<br>(ADR/DOT) | Inland Waterway<br>Transport<br>(ADN) | Sea Transport<br>(IMDG) | Air Transport<br>(IATA) |
|--|-----------------------------|---------------------------------------|-------------------------|-------------------------|
| <b>14.1 UN Number</b>                    | N/A                         | N/A                                   | Not Regulated           | Not Regulated           |
| <b>14.2 UN Proper Shipping Name</b>      | N/A                         | N/A                                   | Not Regulated           | Not Regulated           |
| <b>14.3 Transport Hazard Classes</b>     | N/A                         | N/A                                   | Not Regulated           | Not Regulated           |
| <b>14.4 Packing Group</b>                | N/A                         | N/A                                   | Not Regulated           | Not Regulated           |
| <b>14.5 Environmental Hazards</b>        | N/A                         | N/A                                   | Not Regulated           | Not Regulated           |
| <b>14.6 Special Precautions for User</b> | No                          | No                                    | No                      | No                      |
| <b>14.7 Maritime Transport in Bulk</b>   | N/A                         | N/A                                   | Not Regulated           | Not Regulated           |

\*Product is not considered dangerous for transport according to the above specifications

### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not relevant

## 15. Regulatory Information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

**Safety, health and environmental regulations/legislation specific for the substance or mixture:** Ensure all national/local regulations are observed.

**SARA 302 Components:** The following components are subject to reporting levels established by SARA Title III, Section 302:

Sodium Azide, CAS-No. 26628-22-8

**SARA 313 Components:** The following components are subject to reporting levels established by SARA Title III, Section 313:

Sodium Azide, CAS-No. 26628-22-8

**SARA 311/312 Components:** The following components are subject to reporting levels established by SARA Title III, Section 311/312:

Sodium Azide, CAS-No. 26628-22-8

**Massachusetts Right To Know Components:** Sodium Azide, CAS-No. 26628-22-8

**Pennsylvania Right To Know Components:** Sodium Azide, CAS-No. 26628-22-8

**New Jersey Right To Know Components:** Sodium Azide, CAS-No. 26628-22-8

**California Prop. 65 Components:** This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

### 15.2 Chemical Safety Assessment

For this substance a chemical safety assessment is not required.

## 16. Other Information

### Indication of Changes

This SDS has been revised to reflect current requirements after the adoption of Globally Harmonized Standards and according to Regulation (EC) No 1272/2008 and Regulation (EC) No 2020/878.

## END OF SDS

### Notice to reader:

*To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its distributors, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.*

*Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.*

*The user is responsible for determining what type of PPE is appropriate for handling these materials.*