

Material Safety Data Sheet - Fluoro - ACHE

EMERGENCY # FOR NATIONAL RESPONSE CENTER (800) 424-8802

CHEMICAL IDENTIFICATION:

Product Name: Fluoro AChE – Fluorescent Acetylcholinesterase Detection Kit

Catalog # ACHE100-2 and ACHE100-3

Components:

Part# 3042: Component A Detection Reagent Diluent

Part# 3043: Component B Detection Reagent Diluent

Part# 4016: Component C Detection Reagent

Part# 3011: Component D 5X Reaction Buffer

Part# 7012: Component E Acetylcholine

Part# 6020: Component F Human RBC AChE

Part# 4016

Section 1 - Identification

CAS #: 119171-73-2

Chemical Formula: $C_{14}H_{11}NO_4$

Section 2 – Hazards Identification

Not known.

Section 3 - Characteristics

Red-brown powder

Boiling point °f: No data available.

Vapor pressure (mm Hg): No data available.

Vapor density: No data available.

Solubility in water: Very low.

Specific gravity: Not applicable.

% Volatile by volume: Not applicable.

Evaporation rate: No data available.

pH: Not applicable to a powder.

Section 4 – Storage, Handling, Stability

The material is air sensitive. Store dry material at 4°C.

Section 5 – Safety Control Measures

Gloves and standard laboratory protective clothing and eyewear are recommended. Safe laboratory practices should be followed.

Section 6 - Health Hazard Data

May enter the body through inhalation, ingestion, eye, and skin contact. To our knowledge the hazards of this material have not been fully tested. Handle material with caution.

RTECS Number: None known

Toxicity: We are not aware of any toxicity data for this product.

Health Hazards: We are not aware of any reported health hazards for this product. We recommend treating all chemicals with caution.

Potential Hazards: To our knowledge, the health hazards have not been thoroughly investigated.

Carcinogenicity: Not listed by NTP, IARC or OSHA.

Section 7 – First Aid Measures

Avoid prolonged or repeated exposure. Remove contaminated clothing and shoes, and wash before reuse.

Skin: Wash skin thoroughly with soap and water.

Eyes: Flush with water for at least 15 minutes.

Ingestion: Seek medical attention.

Inhalation: Remove to fresh air. Seek medical attention.

Section 8 – Fire/Explosion Hazard Data

Use any means suitable for extinguishing surrounding fire. It is not necessary to use any special firefighting procedures. Water spray, carbon dioxide, dry chemical powder or appropriate foam can all be used.

Thermal Decomposition: No decomposition if used according to specifications.

Dangerous Reactions: None identified.

Dangerous Products of Decomposition: No dangerous decomposition products identified.

Section 9 - ACCIDENTAL RELEASE MEASURES

For release of large amounts of material, wear safety glasses and rubber gloves. Stop source of leak and isolate spill area. Collect material in an appropriate container and dispose all waste in accordance with applicable laws. Dispose of all waste in accordance with all national, state, and local regulations.

- 1. Part#: 3042 (Buffer).**
- 2. Part#: 3043 (Buffer Part#).**
- 3. Part#: 3011 (Buffers + enzymes).**
- 4. Part#: 7012: C₇H₁₆NO₂⁺ (Dried powder no solvents or buffers),**
- 5. Part#: 6020 (Buffer + AChE enzyme).**

Section 1 - Hazard Identification

Harmful if swallowed. May cause irritation, avoid breathing vapors or dusts. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

Classification: 1. Buffer: 1X Phosphate buffer pH 7-8. NaH_2PO_4 + NaCl .
2. Dry powder no solvent: dried powder no solvents.

Section 2 - First Aid Measures

Harmful if swallowed. May cause irritation, avoid breathing vapors or dusts. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

FIRST AID: SKIN: Wash exposed area with soap and water. If irritation persists, seek medical attention.

EYES: Wash eyes with plenty of water for at least 15 minutes, lifting lids occasionally. Seek Medical Aid. **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen

INGESTION: If swallowed, induce vomiting immediately after giving two glasses of water. Never give anything by mouth to an unconscious person.

Section 3 - Fire Fighting Measures

Fire Extinguisher Type: Any means suitable for extinguishing surrounding fire

Fire/Explosion Hazards: Thermal decomposition produces highly toxic fumes.

Fire Fighting Procedure: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and clothing.

Section 4 - Accidental Release Measures

Absorb spill with inert material, then place in a chemical waste container. Dispose of in a manner consistent with federal, local law.

Section 5 - Handling and Storage

Store in a cool dry place. Do not get in eyes, on skin, on clothing. Wash thoroughly after handling

Section 6 - Exposure Controls & Personal Protection

Ventilation: Local Exhaust

Use Gloves, Safety Glasses with side shield.

Other Protective Equipment: Use safe laboratory handling procedures.

Section 7 - Stability and Reactivity Information

Stability: Stable

Conditions to Avoid: Avoid contact with incompatible materials.

Materials to Avoid: Strong acids, aluminum and steel

Hazardous Decomposition Products: Thermal decomposition may produce toxic gases.

Hazardous Polymerization: Will Not Occur

Condition to Avoid: None known

Section 8 – Additional Information

Conditions aggravated/target organs: Persons with pre-existing eye and skin conditions will be more susceptible. **Acute:** Skin irritation, mild eye irritation, ingestion of large quantities may cause potassium poisoning. **Chronic:** Dermatitis, eye damage.

DOT Classification: Not Regulated

Section 9 - Physical and Chemical Properties

Appearance: Clear, colorless solution.

Odor: Odorless.

Solubility: Infinitely soluble.

Specific Gravity: ca. 1.0

pH: No information found.

% Volatiles by volume @ 21C (70F): 100

Boiling Point: ca. 100C (ca. 212F)

Melting Point: ca. 0C (ca. 32F)

Vapor Density (Air=1): No information found.

Vapor Pressure (mm Hg): No information found.

Evaporation Rate (BuAc=1): No information found.

Section 10 - Stability and Reactivity

Stability: Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products: Decomposes to water and oxygen.

Hazardous Polymerization: Will not occur.

Incompatibilities: Heat, reducing agents, organic materials, dirt, alkalis, rust, and many metals.

Conditions to Avoid: Light, heat, incompatibles.

Section 11 - Disposal Considerations

Dilute with water and flush to sewer if local ordinances allow, otherwise, whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

DISCLAIMER

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