



Safety Data Sheet (SDS)

1. Product and Company Identification

1.1 Product identifiers

a. Product name: AF647 NHS Ester [equivalent to Alexa Fluor™ 647 NHS Ester]

b. Product number: 1833
c. CAS number: N/A

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Laboratory chemicals *For Research Use Only*

1.3 Details of the supplier of the data sheet

a. Company: AAT Bioquest, Inc.

520 Mercury Drive, Sunnyvale, CA 94085

 b. Telephone:
 408-733-1055

 c. Fax:
 408-733-1304

 d. E-Mail:
 info@aatbio.com

1.4 Emergency telephone number

Emergency telephone number: 408-489-6491

2. Hazards Identification

2.1 Classification

Not a hazardous substance or mixture

2.2 GHS label elements, including precautionary statements

Not a hazardous substance or mixture

2.3 Hazardous not otherwise classified (HNOC) or not covered by GHS

None

2.4 Potential health effects

Avoid contact and inhalation. To our knowledge, the hazards of this material have not been thoroughly investigated. We recommend handling all chemicals with caution.

a. Inhalation: No data available (may be harmful by inahalation)b. Ingestion: No data available (may be harmful if swallowed)

c. Skin:No data available (may cause skin irritation in susceptible persons)d. Eyes:No data available (may cause eye irritation in susceptible persons)

e. Chronic exposures:

No data available (potentially harmful)

f. Target organs:

No data available (potentially harmful)

g. Carcinogenic effects:

No data available (potentially harmful)

h. Mutagenic effect:

No data available (potentially harmful)

i. Reproductive toxicity:

No data available (potentially harmful)

j. Sensitization:

No data available (potentially harmful)

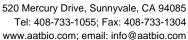
3. Composition/Information on Ingredients

Chemical Name CAS# EINECS# AF647 NHS Ester [equivalent to Alexa Fluor $^{\text{TM}}$ 647 NHS Ester] N/A N/A

4. First Aid and Measures

4.1 Skin contact

Rinse with plenty of water. Call a physician to seek medical advice if symptoms arise.





4.2 Eye contact

Wash thoroughly after handling. If eye or skin contact occurs, immediately wash affected area with soap and copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician to seek medical advice.

4.3 Inaestion

Never give anything by mouth to an unconscious person. Call a physician to seek medical advice if symptoms arise.

4.4 Inhalation

If swallowed, wash out mouth with water provided person is conscious and call a physician to seek medical advice. If inhaled, move individual to fresh air and call a physician to seek medical advice.

4.5 Notes to physician

Treat symptomatically.

5. Fire Fighting Measures

5.1 Extinguishing media

Water spray, carbon dioxide, dry chemical powder or appropriate foam.

5.2 Special firefighting procedures

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

5.3 Unusual fire and explosions hazards

Emits toxic fumes under fire conditions.

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Use appropriate protective equipment and methods to clean up spilled substances promptly.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so.

6.3 Methods for cleaning up

Absorb spill onto an appropriate material. Collect and dispose of all waste in accordance with applicable laws.

7. Handling and Storage

7.1 Personal precautions, protective equipment and emergency procedures

Potentially harmful. Avoid prolonged or repeated exposure. Avoid dust formation. Avoid breathing vapors, mist or gas.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry, cool and well-ventilated place. Protect material from long-term exposure to light.

8. Exposure Controls/Personal Protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Control parameters

a. Engineering measures: General industrial hygeine practice.

b. Personal protective equipment: Wear appropriate gloves, protective clothing and eyewear and follow

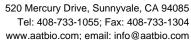
safe laboratory practices.

8.3 Environmental exposure control

Prevent products from entering drains.

9. Physical and Chemical Properties

Appearance: Solid Solubility in water: High





Odor/odor threshold: No data available Specific gravity: No data available No data available pH: Boiling point: No data available Melting point: No data available Flash point: No data available Vapor pressure: No data available Vapor density: No data available Relative density: No data available Upper/lower flammability or explosive limits: No data available Partition coefficient (n-octanol/water): No data available Auto-ignition temperature: No data available Decomposition temperature: No data available Viscosity: No data available Explosive properties: No data available Oxidizing properties: No data available

10. Stability and Reactivity

Reactivity: No data available

Chemical stability: Stable under recommended storage conditions

Possibility of hazardous reactions:No data availableConditions to avoid:No data availableIncompatible materials:No data availableHazardous decomposition products:No data available

11. Toxicological Information

Acute toxicity: No data available

Skin/corrosion/irritation:

No data available (may cause skin irritation in susceptible persons)

Serious eye damage/irritation:

No data available (may cause eye irritation in susceptible persons)

Respiratory or skin sensitization: No data available (may be harmful by inhalation)

Germ cell mutagenicity:

No data available (potentially harmful)

Carcinogenicity:

Not listed by NTP, IARC, or OSHA

Reproductive toxicity:

Specific target organ toxicity:

Aspiration hazard:

No data available

12. Ecological Information

Ecotoxicity:No data availablePersistence and degradability:No data availableBioaccumulative potential:No data availableMobility in soil:No data availableResults of PBT and vPvB assessment:No data available

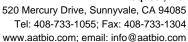
13. Disposal Consideration

Do not allow product to reach ground water, water course, or sewage system. Consult local, state or national regulations for proper disposal.

14. Transport Information

DOT (US):Not dangerous goodsIMDG:Not dangerous goodsIATA:Not dangerous goods

15. Regulatory Information





US Toxic Substances Control Act (TSCA):	Not listed
SARA 302 components:	Not listed
SARA 313 components:	Not listed
SARA 311/312 components:	Not listed
EEC risk statements:	Not listed
Massachusetts-RTK:	Not listed
New Jersey-RTK:	Not listed
Pennsylvania-RTK:	Not listed
California Proposition 65:	Not listed

16. Other Information

16.1 HMIS Rating	
Health hazard	0
Flammability	0
Reactivity	0
16.2 NFPA Rating	
Health hazard	0
Flammability	0
Reactivity	0

16.3 Further information

This material is sold for research purposes only and is not required to appear on the TSCA inventory. It is not intended for food, drug, household, agricultural or cosmetic use. Its use must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Users should make independent decisions regarding completeness of the information based on all sources available. AAT Bioquest shall not be held liable for any damage resulting from handling or from contact with the above product.