Section 1: Identification of the substance, company and intended use.

1.1 Product Identifiers

Product No.: 1013
Product Name: AFDye 488 NHS Ester
Synonym: Alexa Fluor® 488 NHS Ester

1.2 Identified use of the substance

Identified Use: Laboratory chemicals, manufacture of substances

1.3 Company/undertaking identification

Fluoroprobes Tel: 1-480- 685-2898
8341 E. Gelding Drive Fax: 1-866-717-2037
Scottsdale, AZ 85260

Section 2: Composition/Information on Ingredients

CAS No.: N/A
Mol. Formula: N/A
Mol. Weight: 833.26
Assay: N/A

The product contains no substances which at their given concentration, are considered to be hazardous to health.

Section 3: Hazards Identification

3.1 Classification of the substance or mixture

Not a hazardous substance or mixture.

3.2 GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

3.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Not a hazardous substance or mixture.
Section 4: First-Aid Measures

4.1 Description of first aid measures

If inhaled

Move to fresh air. If symptoms persist, call a physician. If not breathing, give artificial respiration.

In case of skin contact

Rinse with plenty of water. If symptoms arise, call a physician.

In case of eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.

If swallowed

Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice.

4.2 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Section 5: Fire Fighting Measures

5.1 Extinguishing media


5.2 Advice from firefighters

Wear self-contained breathing apparatus and protective suit.

5.3 Further information

No data available

Section 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protection equipment.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so.

6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material.

6.4 Reference to other sections

See Section 12 for additional information.
Section 7: Handling and Storage

7.1 Precautions for safe handling

Always wear recommended Personal Protective Equipment. No special handling advice required.

7.2 Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place.

Section 8: Exposure Controls/Personal Protection

8.1 Exposure Limits

We are not aware of any national exposure limit.

8.2 Engineering measures

Ensure adequate ventilation, especially in confined areas.

8.3 Personal protective equipment

Personal Protective Equipment requirements are dependent on the user institution's risk assessment and are specific to the risk assessment for each laboratory where this material may be used.

Eye/Face protection

Safety glasses with side-shields

Hand protection

Impervious gloves

Skin/Body Protection

Lightweight protective clothing

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice

Respiratory protection

In case of insufficient ventilation wear suitable respiratory equipment.

Control of Environmental exposure

Prevent product from entering drains

Section 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

a) Appearance No data available
b) Odor No data available
c) Odor Threshold No data available
d) pH                           Not Applicable

e) Melting / Freezing points    °C and °F No data available

f) Initial boiling point & boiling range °C and °F No data available

g) Flash point                  °C and °F No data available

h) Evaporation rate             No data available

i) Flammability (solid, gas)    No data available

j) Explosive limits             No data available

k) Vapor pressure               No data available

l) Vapor pressure               No data available

m) Relative density             No data available

n) Solubility                   Water, DMSO, DMF

o) Partition coefficient: n-octanol/water No data available

p) Auto-ignition temperature    No data available

q) Decomposition temperature    No data available

r) Viscosity                    No data available

s) Explosive properties         No data available

t) Oxidizing properties          No data available

9.2 Other safety information

No data available.

Section 10: Stability and Reactivity

10.1 Chemical stability

Stable under normal conditions

10.2 Materials to avoid

No dangerous reaction known under conditions of normal use

10.3 Hazardous decomposition products

None under normal use

10.4 Polymerization

Hazardous polymerization does not occur

Section 11: Toxicological Information

11.1 Acute toxicology

No data available

Inhalation: No data available
Dermal: No data available

11.2 Skin corrosion / irritation
No data available

11.3 Serious eye damage/eye irritation
No data available

11.4 Respiratory or skin sensitization
No data available

11.5 Germ cell mutagenicity
No data available

11.6 Carcinogenicity
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

11.7 Reproductive toxicity
No data available

Specific target organ toxicity – single exposure
No data available.

Specific target organ toxicity – repeated exposure
No data available.

Aspiration hazard
No data available.

Additional Information
RTECS: Not available.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Section 12: Ecological Information

12.1 Toxicity
No information available

12.2 Mobility
No information available

12.3 Persistence and degradability
Inherently biodegradable

12.4 Bio accumulative potential
Does not bioaccumulate

12.5 Other adverse effects
No information available

Section 13: Disposal Considerations

13.1 Waste treatment methods
Dispose of in accordance with local regulations.

Section 14: Transport Information

14.1 IATA
Proper shipping name  Not classified as dangerous in the meaning of transport regulations
Hazard class None
Subsidiary Class None
Packing Group None
UN-No None

Section 15: Regulatory Information

SARA 313 Components
This product is not regulated by SARA

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)
This product does not contain HAPs

California Proposition 65
This product does not contain chemicals listed under Proposition 65

WHMIS Hazard Class
Non-controlled
This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR

Section 16: Other Information

For research use only. Not intended for human or animal diagnostic or therapeutic uses.