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**1. PRODUCT AND COMPANY IDENTIFICATION**

Product name: **(5 and 6)-FAM, Mixed Isomers (5 and 6-CarboxyFluorescein-Aminoethyl Amidite)**  
Base Catalog Number: BNS-5026  
CAS-No. : No data available  
Identified uses : For research and development use  
Company: Biosearch Technologies, Inc.  
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Petaluma, CA 94954-6904  
USA  
Telephone: +1.415.883.8400  
Fax: +1.415.883.8488  
Emergency Phone #: +1.800.424.9300 (US)  
+1.703.527.3887 (International)

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**2. HAZARDS IDENTIFICATION**

**2.1. GHS Hazard Statements**

H303: May be harmful if swallowed.  
H313: May be harmful in contact with skin.  
H320: Causes eye irritation.  
H333: May be harmful if inhaled.

**2.2. GHS Precautionary Statements**

P103: Read label before use.  
P232: Protect from moisture.  
P233: Keep container tightly closed.  
P280: Wear protective gloves / protective clothing / eye protection / face protection.

**2.3. GHS Response Statements**

P301 + 330: IF SWALLOWED: Rinse mouth with water.  
P302 + 350: IF ON SKIN: Gently wash with soap and water.  
P304 + 340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P305 + 351 + 338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so - continue rinsing.  
P306 + 360: IF ON CLOTHING: Rinse contaminated clothing and skin immediately with plenty of water before removing clothes.  
P314: Get medical advice / attention if you feel unwell.  
P362: Take off contaminated clothing and wash before use.

**2.4. GHS Storage and Disposal Phrases**

P401 Store in a cool, dry place  
P501: Dispose of contents / container in a safe way in accordance with all federal, state and local regulations.

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**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1. Substances**

Synonyms : [(3',6'-dipivaloylfluoresceinyl)-5 and 6-carboxamido-hexyl]-6-O-(2-cynoethyl)-  
(N,N-diisopropyl)- phosphoramidite  
Formula : C<sub>46</sub>H<sub>58</sub>N<sub>3</sub>O<sub>10</sub>P  
Molecular Weight : 843.95000000000005

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**4. FIRST AID MEASURES**

**4.1. Description of first aid measures**

**If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

**In case of skin contact**

Wash off with soap and plenty of water.

**In case of eye contact**

Flush eyes with water as a precaution.

**If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water.



**4.2. Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in the labeling in section 2 and/or in section 11

**4.3. Indication of any immediate medical attention and special treatment needed**

No data available

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**5. FIREFIGHTING MEASURES**

**5.1. Extinguishing media**

**Suitable extinguishing media**

Use a Class A Extinguisher (Dry chemical, carbon dioxide, water or foam).

**5.2. Special hazards arising from the substance or mixture**

Oxides of nitrogen and carbon.

**5.3. Advice for firefighters**

Wear self-contained breathing apparatus (SCBA) for firefighting if necessary.

**5.4. Further information**

No data available

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**6. ACCIDENTAL RELEASE MEASURES**

**6.1. Personal precautions, protective equipment and emergency procedures**

Avoid dust formation. Avoid breathing vapors, mist or gas.

For personal protection, see section 8.

**6.2. Environmental precautions**

Do not let product enter drains

**6.3. Methods and materials for containment and cleaning up**

Sweep up and shovel. Finish by wiping with a damp towel. Keep in suitable, closed containers for disposal.

**6.4. Reference to other sections**

For disposal, see section 13.

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**7. HANDLING AND STORAGE**

**7.1. Precautions for safe handling**

Provide appropriate exhaust ventilation at places where dust is formed.

For precautions, see section 2.2.

**7.2. Conditions for safe storage, including any incompatibles.**

Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature: -20 °C, desiccated

**Specific end use(s)**

Apart from the uses mentioned in section 1 no other specific uses are stipulated.

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1. Control parameters**

**Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

**8.2. Exposure controls**

**Appropriate engineering controls**

General industrial hygiene practice.

**Personal protective equipment**

**Eye/face protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (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 glove after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Body Protection**

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work place. The type of protective equipment must be selected according to the concentration and amount of dangerous substances, and to the specific work place.

**Respiratory protection**



Respiratory protection is not required. Where protection from nuisance levels of dust are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of environmental exposure**

Do not let product enter drains.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

**9.1. Information on basic physical and chemical properties**

a) Appearance (physical state, color, etc.)	white solid
b) Odor	No data available
c) Odor threshold	No data available
d) pH	No data available
e) Melting point/freezing point	No data available
f) Initial boiling point and boiling range	No data available
g) Flash point	No data available
h) Evaporation rate	No data available
i) Flammability (solid, gas)	No data available
j) Upper/lower flammability or explosive limits	No data available
k) Vapor pressure	No data available
l) Vapor density	No data available
m) Relative density	No data available
n) Solubility	No data available
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

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**10. STABILITY AND REACTIVITY**

**10.1. Reactivity**

No data available

**10.2. Chemical stability**

Stable under recommended storage conditions.

**10.3. Possibility of hazardous reactions**

No data available

**10.4. Conditions to avoid**

No data available

**10.5. Incompatible materials**

Strong oxidizing agents

**10.6. Hazardous decomposition products**

Other decomposition products- no data available

In the event of fire: see section 5

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**11. TOXICOLOGICAL INFORMATION**

**11.1. Information on toxicological effects**

**Acute toxicity**

No data available

Inhalation: no data available

Dermal: no data available

**Skin corrosion/irritation**

No data available

**Serious eye damage/eye irritation**

No data available



**Respiratory or skin sensitization**

No data available

**Germ cell mutagenicity**

No data available

**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 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 carcinogen or potential carcinogen by NTP.

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

**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

**12. ECOLOGICAL INFORMATION**

**12.1. Toxicity**

No data available

**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 and PBT and vPvB assessment**

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

**12.6. Other adverse effects**

No data available

**13. DISPOSAL CONSIDERATIONS**

**13.1. Waste treatment methods**

**Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging**

Dispose of as unused product

**14. TRANSPORTATION INFORMATION**

**DOT (US)**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

**15. REGULATORY INFORMATION**

**SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**



SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**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.

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**16. OTHER INFORMATION**

LGC Biosearch Technologies' laboratory chemicals are for research purposes only and are not intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all-inclusive and should only be used as a guide. Neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of the suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we cannot guarantee that those are the only hazards that exist. Our SDS sheets are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods as the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS sheets for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, facial mask, fume hood). For proper handling and disposal, always comply with federal, state, and local regulations.

**Revision Date:** 4 May 2015