1. PRODUCT AND COMPANY IDENTIFICATION
   Product name: BHQ-3 Carboxylic Acid, Succinimidyl Ester
   Base Catalog Number: BHQ-30005
   CAS-No.: No data available
   Identified uses: For research and development use
   Company: Biosearch Technologies, Inc.
   2199 South McDowell Blvd.
   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)

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.

3. COMPOSITION/INFORMATION ON INGREDIENTS
   3.1. Substances
   Synonyms : No data available
   Formula : C37H38F6N7O4P
   Molecular Weight : 789.71000000000004

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

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

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.

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, dark and dry
   Specific end use(s)
   Apart from the uses mentioned in section 1 no other specific uses are stipulated.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION
8.1. 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
   Chose 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.

9. PHYSICAL AND CHEMICAL PROPERTIES
9.1. Information on basic physical and chemical properties

| a) Appearance (physical state, color, etc.) | dark purple 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

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

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.

16. OTHER INFORMATION

LGC Biosearch Technologies' laboratory chemicals are for research purposes only and are not intended for use as drugs, food additives, household, 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