

Safety Data Sheet

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name: mckLH *Optimized for Maximum Immunization Response*
Product number: 5607

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

Identified uses: For research use only. Not intended for diagnostic or therapeutic use.

1.3 Details of the supplier of the safety data sheet

Company: AAT Bioquest, Inc.
Address: 5775 W Las Positas Blvd, Pleasanton, CA 94588
Telephone: (408)-733-1055
Fax: (408)-733-1304
Email: info@aatbio.com

1.4 Emergency telephone number

Chemtrec (Within USA): 1-(800)-424-9300
Chemtrec (Outside USA): 1-(703)-527-3887

Section 2: Hazard identifications

2.1 Classification of the substance or mixture

Hazardous to the aquatic environment, acute hazard: Category 3

2.2 Label elements

Signal word: Not available
Hazard statements: H402 - Harmful to aquatic life
Symbols/Pictograms: Not available
Precautionary statements - prevention: Avoid release to the environment.
Precautionary statements - response: Not available
Precautionary statements - storage: Not available
Precautionary statements - disposal: Dispose of contents/container in accordance with local/regional/national/international regulation.

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

Hazards not otherwise classified (HNOC): Not available

2.4 Other information

Other hazards: Not Applicable

Section 3: Composition/information on ingredients

3.1 Substances

Chemical name:	mcKLH *Optimized for Maximum Immunization Response*
CAS number:	Not available
Molecular weight:	Not applicable
Formula:	Not available

Section 4: First aid measures

4.1 First-aid measures

General advice:	If symptoms occur, seek medical advice/attention.
Eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Skin contact:	Rinse with plenty of water . Immediate medical attention is not required.
Inhalation:	Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Consult a physician if necessary.
Ingestion:	Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice.
Self-protection of the first aider:	Use personal protective equipment.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms:	The most important known symptoms and effects are described in the labelling (see Section 2.2) and/or in Section 11.
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4.3 Indication of any immediate medical attention and special treatment needed

Note to physicians:	Treat symptomatically.
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Section 5: Firefighting measures

5.1 Suitable extinguishing media

Suitable extinguishing media:	Water spray. Carbon dioxide (CO ₂). Foam. Dry chemical.
Unsuitable extinguishing media:	No information available.

5.2 Specific hazards arising from the chemical

Specific hazards arising from the chemical:	Mixture with combustible ingredients. Development of hazardous combustion gases or vapours possible in the event of fire.
Hazardous combustion products:	Nitrogen oxides (NO _x). Sulfur oxides. Magnesium oxide.

5.3 Explosion data

Sensitivity to mechanical impact:	No information available.
Sensitivity to static discharge:	No information available.

5.4 Protective equipment and precautions for firefighters

Protective equipment and precautions for firefighters:	In the event of fire, wear self-contained breathing apparatus.
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Section 6: Accidental release measures

6.1 Personal precautions, protective equipment, and emergency procedures

Personal precautions:	Ensure adequate ventilation. Always wear recommended Personal Protective Equipment. Use personal protection equipment. See Section 8 for more detail.
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6.2 Environmental precautions

Environmental precautions:	Do not let product enter drains.
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6.3 Methods and material for containment and cleaning up

Methods for containment:	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up:	Take up mechanically, placing in appropriate containers for disposal.

Section 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling:	Use personal protective equipment as required. No special handling advices are necessary.
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7.2 Conditions for safe storage, including any incompatibilities

Storage conditions:	Keep in a dry, cool and well-ventilated place. Keep in properly labeled containers.
Incompatible materials:	No information available.

Section 8: Exposure controls/personal protection

8.1 Control parameters

Exposure guidelines:	Contains no substances with occupational exposure limit values.
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8.2 Appropriate engineering controls

Engineering controls:	Ensure adequate ventilation, especially in confined areas.
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8.3 Individual protection measures, such as personal protective equipment

Eye/face protection:	Tight sealing safety goggles.
Skin and body protection:	Wear suitable protective clothing.
Respiratory protection:	In case of insufficient ventilation wear respirators and components tested and approved under appropriate government standards.
General hygiene considerations:	Handle in accordance with good industrial hygiene and safety practice

Section 9: Physical and chemical properties

Physical state:	Solid
Solubility in water:	High
Appearance:	No information available.
Odor/odor threshold:	No data available
pH:	No information available.
Melting point/freezing point:	Mixture has not been tested
Boiling point:	Mixture has not been tested
Flashpoint:	Mixture has not been tested
Liquid density:	No information available.
Evaporation rate:	No data available

Upper flammability limit:	Mixture has not been tested
Lower flammability limit:	Mixture has not been tested
Vapor pressure:	Mixture has not been tested
Vapor density:	No information available.
Specific gravity:	No data available
Water solubility:	No information available.
Solubility in other solvents:	No data available
Partition coefficient:	No data available
Autoignition temperature:	Mixture has not been tested
Decomposition temperature:	Mixture has not been tested
Viscosity:	No information available.
Explosive properties:	Mixture has not been tested
Oxidizing properties:	No information available.

Section 10: Stability and reactivity

Reactivity:	None known.
Chemical stability:	Stable under normal conditions.
Possibility of hazardous reactions:	Hazardous reaction has not been reported.
Hazardous polymerization:	No information available.
Conditions to avoid:	No information available.
Incompatible materials:	No dangerous reaction known under conditions of normal use.
Hazardous decomposition products:	No data available.

Section 11: Toxicological information

11.1 Information on likely routes of exposure

Inhalation:	
Eye contact:	No information available.
Skin contact:	
Ingestion:	

11.2 Information on toxicological effects

Symptoms:	Irritation: Conclusive but not sufficient for classification. Corrosivity: Conclusive but not sufficient for classification. Sensitization: Conclusive but not sufficient for classification. STOT - Single Exposure: Conclusive but not sufficient for classification. STOT - Repeated Exposure: Conclusive but not sufficient for classification. Carcinogenicity: Conclusive but not sufficient for classification. Mutagenicity: Conclusive but not sufficient for classification. Reproductive toxicity: Conclusive but not sufficient for classification. Aspiration hazard: Conclusive but not sufficient for classification
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11.3 Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic toxicity:	No information available.
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11.4 Numerical measures of toxicity - product information

Unknown acute toxicity:

Acute toxicity estimate (calculation method): Oral > 5,000 mg/kg;
Dermal 3,378 mg/kg.

Section 12: Ecological information

Ecotoxicity:	Ammonium sulphate: LC50 (Oncorhynchus mykiss, rainbow trout) 53 mg/L (96 h); EC50 (Ceriodaphnia) 121.7 mg/L (48 h); ErC50 (Chlorella vulgaris) 2,700 mg/L (18 d).
Persistence and degradability:	No information available.
Bioaccumulation:	No information available.
Mobility:	No information available.

Section 13: Disposal consideration

Disposal of wastes:	The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in accordance with approved disposal technique. Disposal of this product, its solutions or any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.
Contaminated packaging:	Do not reuse container.
Other information:	None

Section 14: Transport information

DOT:	IATA / ADR / DOT-US / IMDG: Not classified as dangerous in the meaning of transport regulations. UN number: Not Applicable; UN proper shipping name: Not Applicable; Transport hazard class(es): Not Applicable; Packing group: Not Applicable. Environmental hazards: Not Applicable. Special precautions for user: Not Applicable. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not Applicable.
IMDG:	See combined IATA / ADR / DOT-US / IMDG block: Not classified as dangerous in the meaning of transport regulations.
IATA:	See combined IATA / ADR / DOT-US / IMDG block: Not classified as dangerous in the meaning of transport regulations.

Section 15: Regulatory information

15.1 International Inventories

US Toxic Substances Control Act (TSCA):	Product contains substance(s) not listed on the TSCA inventory.
Canada (DSL/NDSL):	Not listed
Europe (EINECS/ELINCS/NLP):	Not listed
Australia (AICS):	Not listed
South Korea (KECL):	Not listed
China (IECSC):	Not listed
Japan (ENCS):	Not listed
Phillipines (PICCS):	Not listed

15.2 US Federal Regulations

SARA 313:	Ammonium sulphate (CAS 7783-20-2) is subject to SARA 313 reporting.
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SARA 311/312 components:	Not listed
CWA (Clean Water Act):	No information available.

15.3 US State Regulations

California Proposition 65:	This product does not contain any Proposition 65 chemicals.
Massachusetts-RTK:	Ammonium sulphate (7783-20-2) listed.
New Jersey-RTK:	Not listed
Pennsylvania-RTK:	Ammonium sulphate (7783-20-2) listed.
U.S. State Right-To-Know Regulations:	Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61); This product does not contains HAPs. WHMIS Hazard Class: Non-controlled

Section 16: Other information

16.1 HMIS

Health hazards:	Not determined
Flammability:	Not determined
Reactivity:	Not determined
Personal protection:	Not determined

16.2 NFPA

Health hazards:	Not determined
Flammability:	Not determined
Stability:	Not determined
Physical and chemical properties:	Not determined

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 the 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.