



Safety Data Sheet

SECTION 1: CHEMICAL IDENTIFICATION

Product No.: AQ-30061
Name: Goat anti-Human IgG (H&L), dPEG® Biotin
Recommended Use: For Research Use Only
Manufacturer: Quanta BioDesign, Ltd.
7500 Montgomery Drive
Plain City, Ohio 43064
Telephone / Fax: 614-792-2958 / 614-760-9781
Emergency Telephone Number: 614-286-3702

SECTION 2: HAZARDS IDENTIFICATION

OSHA/HCS status: While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

GHS Classification of the substance or mixture: This mixture is not classified as hazardous according to GHS.

GHS label elements, including precautionary and hazard statements: This mixture is not classified as hazardous according to GHS.

Hazards not otherwise classified: None known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

SECTION 4: FIRST-AID MEASURES

Description of necessary first aid measures

- Eye contact: Flush eyes with plenty of water.
- Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- Skin contact: Wash off with soap and plenty of water.
- Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water.

Most important symptoms/effects, acute and delayed

- Potential acute health effects
 - Eye contact: No specific data available
 - Inhalation: No specific data available
 - Skin contact: No specific data available
 - Ingestion: No specific data available
- Over-exposure signs/symptoms
 - Eye contact: No specific data available
 - Inhalation: No specific data available
 - Skin contact: No specific data available
 - Ingestion: No specific data available
- Indication of immediate medical attention and special treatment needed
 - No specific data available
- See toxicological information (Section 11).

SECTION 5: FIRE-FIGHTING MEASURES

- Extinguishing media:
- Suitable extinguishing media: Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media: None known.
- Specific hazards arising from the chemical: None known
- Special protective actions for fire-fighters: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Special protective equipment for fire-fighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

- For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
- For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions:

- Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up:

- Small spill: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert

dry material and place in an appropriate waste disposal container. Dispose of vial in a licensed waste disposal contractor.

- Large spill: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling:

- Protective measures: Put on appropriate personal protective equipment (see Section 8).
- Advice on general occupational hygiene: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
- Conditions for safe storage, including any incompatibilities: Do not store above the following temperature: +2°C to +8°C. Store in accordance with local regulations. Store in original container protected from light in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters:

- Occupational exposure limits: Contains no substances with occupational exposure limits.
- Appropriate engineering controls: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures:

- Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection: Safety eyewear complying with an approved standard should be

used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

- Skin protection:
 - Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
 - Body protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
 - Other skin protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

- Physical state @ 40C: Solution
- Color: clear to white
- Odor: Not available.
- Odor threshold pH: Not available.
- Melting point: Not available.
- Boiling point: Not available.
- Flash point: Not available.
- Burning time: Not applicable.
- Burning rate: Not applicable
- Evaporation rate: Not available.
- Flammability (solid, gas): Not available.
- Lower and upper explosive (flammable) limits: Not available.
- Vapor pressure: Not available.
- Vapor density: Not available.
- Relative density: Not available.
- Solubility: Soluble in water or aqueous buffers.
- Partition coefficient: Not available.
- Auto-ignition temperature: Not available.
- Decomposition temperature: Not available.
- SADT: Not available.
- Viscosity: Not available.

SECTION 10: STABILITY AND REACTIVITY

- Reactivity: No specific test data related to reactivity available for this product or its ingredients.

- Chemical stability: The product is stable.
- Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reactions will not occur.
- Conditions to avoid: No specific data.
- Incompatible materials: No specific data.

Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicology effects:

- Acute toxicity: Not available
- Irritation/Corrosion: Not available.
- Sensitization: Not available.
- Mutagenicity: Not available.
- Carcinogenicity: Not available.
- Reproductive toxicity: Not available.
- Teratogenicity: Not available.
- Specific target organ toxicity (single exposure): Not available.
- Specific target organ toxicity (repeated exposure): Not available.
- Aspiration hazard: Not available.

Conclusion/Summary: To the best of our knowledge, the toxicological properties of this substance have not been thoroughly investigated.

Information on the likely routes of exposure: Routes of entry anticipated: Oral, Dermal, Inhalation.

- Potential acute health effects:
 - Eye contact: No known significant effects or critical hazards.
 - Inhalation: No known significant effects or critical hazards.
 - Skin contact: May cause sensitization of susceptible persons.
 - Ingestion: No known significant effects or critical hazards.
- Symptoms related to the physical, chemical and toxicological characteristics:
 - Eye contact: No specific data.
 - Inhalation: No specific data.
 - Skin contact: No specific data.
 - Ingestion: No specific data.

Delayed and immediate effects. Also chronic effects from short and long term exposure.

Short term exposure:

- Potential immediate effects: Not available.
- Potential delayed effects: Not available.

Long term exposure:

- Potential immediate effects: Not available.
- Potential delayed effects: Not available.

Potential chronic health effects: Not available.

- General: No known significant effects or critical hazards.
- Carcinogenicity: No known significant effects or critical hazards.
- Mutagenicity: No known significant effects or critical hazards.
- Teratogenicity: No known significant effects or critical hazards.
- Developmental effects: No known significant effects or critical hazards.
- Fertility effects: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates: Not available

SECTION 12: ECOLOGICAL INFORMATION

- Toxicity: Not available.
- Persistence and degradability: Not available.
- Bioaccumulative potential: Not available.
- Mobility in soil: Not available
- Soil/water partition coefficient (KOC): Not available.

Other adverse effects: No known significant effects or critical hazards.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal methods:

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: TRANSPORT INFORMATION

- Land Transport (ADR/RID): Not a dangerous good in the sense of this transport regulation.
- Inland Water ways transport (ADN): Not a dangerous good in sense of this transport regulation.
- Sea Transport (IMDG): Not a dangerous good in sense of this transport regulation.
- Air Transport (ICAO-TP/IATA-DGR): Not a dangerous good in sense of this transport regulation.
- DOT Classification: Not a DOT controlled material (United States).

SECTION 15: REGULATORY INFORMATION

US Federal Regulations

TSCA Inventory: Not Listed

This substance is not SARA listed.

- Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs): Not listed
- Clean Air Act Section 602 Class I Substances: Not listed
- Clean Air Act Section 602 Class II Substances: Not listed
- DEA List I Chemicals (Precursor Chemicals): Not listed
- DEA List II Chemicals (Essential Chemicals): Not listed

SARA 302/304:

Composition/information on ingredients: No products were found.

SARA 304 RQ: Not applicable.

SARA 311/312:

Classification: Not applicable.

Composition/information on ingredients: No products were found.

State regulations:

- California Prop65: Not listed

International regulations:

- EU REACH: Not listed

SECTION 16: OTHER INFORMATION

The customer is responsible for determining the PPE code for this material.

History

Date of issue/Date of revision 3/8/2021

Date of previous issue version: No previous version

Prepared by: Regulatory Specialist

Key to abbreviations:

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

- IMDG = International Maritime Dangerous Goods
- LogPow = logarithm of the octanol/water partition coefficient
- MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
- UN = United Nations

References: Not available.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, 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 suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Quanta BioDesign, Ltd.

7500 Montgomery Drive

Plain City, OH 43064

Telephone: 614-792-2958