



September 20, 2022

**RE: Materials Declaration for AquaPoint Bioclere Model 16/25**

To Whom it May Concern,

The following is a list of components and materials used in the fabrication of the AquaPoint Bioclere™ model 16/25 for use in Living Building Challenge (LBC) applications. CAS numbers and weights are provided to verify compliance with LBC Version 4.0 Red List standards. All materials meet the required < 100 ppm detection threshold for red list items.

**Bioclere 16/25 Materials:**

- Fiberglass tank, fan box and gravity pipework
  - o Polyester Resin and Gelcoat
    - CAS#: 113669-95-7
    - Weight: 394 lbs. (37%)
  - o Fiberglass Cloth, Mat and Chop
    - CAS#: 65997-17-3
    - Weight: 192 lbs. (18%)
  
- Randomly packed trickling filter media
  - o Polypropylene
    - CAS#: 9003-07-0
    - Weight: 328 lbs. (31%)
  
- Internal central shaft, recycle line, dosing line and spray nozzle plumbing
  - o High Density Polyethylene (pipework and central shaft)
    - CAS#: 9002-88-4
    - Weight: 78 lbs. (7%)
  - o Nylon (spray nozzles)
    - CAS#: 32131-17-2
    - Weight: < 1 lb. (0.1%)
  
- Sealant between clarifier and filter housings
  - o Butyl Rubber
    - CAS#: 9010-85-9
    - Weight: 5 lbs. (0.5%)
  
- Hardware, handles and latches
  - o Stainless Steel
    - CAS#: 65997-19-5
    - Weight: 18 lbs (2%)

- Ventilation fan
  - o Aluminum
    - CAS#: 7429-90-5
    - Weight: 3 lbs. (0.3%)
  
- Junction box, grommets, terminals and wire
  - o Polycarbonate (box)
    - CAS# 25037-45-0
    - Weight: 3 lbs. (0.3%)
  - o Nylon (grommets)
    - CAS#: 32131-17-2
    - Weight: < 1 lbs. (0.1%)
  - o Polyamide (terminals and wire casing)
    - CAS#: 63428-84-2
    - Weight: 2 lbs. (0.2%)
  - o Copper (wire)
    - CAS#: 7440-50-8
    - Weight: < 1 lb. (0.1%)
  
- Dosing and recycle pumps (one each)
  - o Stainless Steel
    - CAS#: 65997-19-5
    - Weight: 8 lbs. (0.8%)
  - o Glass Filled Thermoplastic Consisting of Polyamide Polymer Nylon
    - CAS#: 63428-84-2
    - Weight: 12 lbs. (1.2%)
  - o Copper (wire)
    - CAS#: 7440-50-8
    - Weight: < 1 lb. (0.1%)
  - o Polyamide Nylon (wire casing)
    - CAS#: 63428-84-2
    - Weight: < 1 lb. (0.1%)
  
- Float switch
  - o Polypropylene
    - CAS#: 9003-07-0
    - Weight: 1 lbs. (0.1%)
  - o Copper (wire)
    - CAS#: 7440-50-8
    - Weight: < 1 lb. (0.1%)
  - o Polyamide Nylon (wire casing)
    - CAS#: 63428-84-2
    - Weight: < 1 lb. (0.1%)

Total weight of 16/25 Bioclere unit: 1,051 lbs.

Please do not hesitate to contact us with any questions.

Sincerely,

A handwritten signature in black ink that reads "Josh Lindell". The signature is written in a cursive style and is enclosed within a thin black rectangular border.

Josh Lindell  
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