

# TRAMFLOC, INC.

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## Technical Information Bulletin

### TRAMFLOC® 1004 SUPERABSORBENT POLYMER

#### ***Product Description***

Tramfloc® 1004 is a water absorbing soil conditioner. Tramfloc® 1004 is a cross-linked copolymer of acrylamide and potassium acrylate used to absorb and retain large quantities of water and nutrients. Tramfloc® 1004 is supplied as a white granules with particle sizes of 2.0-4.0 mm.

#### ***Uses***

Tramfloc® 1004 is applied in agricultures, horticulture, forestry, mining and other operations where moisture retention is required. Tramfloc® 1004 has an anionic character and is 100% active with a maximum moisture content of 10 per cent. Tramfloc® 1004 is insoluble in water and functions in the usable pH range of 5-9.

#### ***Typical Characteristics***

Maximum absorption in weight of retained water per weight of Tramfloc® 1004 is as follows. a) deionized water.....500; b) water with 1000 ppm NaCl.....190; c) in soil, measured under a pressure of 2 atm.....225; d) time to reach 60% of maximum absorption, minutes.....60; e) stability of swollen product in sandy soil, years.....3-4; f) mesh size: % < 100 mesh: 10; % > 10 mesh: ; g) approximate bulk density: 0.8.

#### ***Application Rates***

Rates vary according to the conditions of the soils, crops, water supplies, and whether water is from rainfall or irrigation and the quantities and frequencies of watering. General guidelines are: 2-3 kg/m<sup>3</sup> in mixed to substrates consisting of sand, peat and compost; 50-100 g/m<sup>2</sup> in broadcasting;

#### ***Packaging, Handling and Storage***

Tramfloc® 1004 is available in 25 kg multi wall bags packed 30 per pallet and in 750 kg SuperSaks™, 15 MT/20' container. Storage temperatures should be between 32-100° F. Unopened bags are hygroscopic and should be stored in a cool, dry place. Shelf life is 5 years.

#### ***Safety and Health***

Dry polymer spills should be left dry and swept up at once. Spills of polymer are slippery. Precautions should be taken to prevent them from entering lakes or streams. Tramfloc® Polymer Cleaner 348 can be used to remove residue from equipment and floors. Polymer can be disposed of according to local regulations or treated with an absorbent material, then collected for subsequent legal disposal. Tramfloc® 1004 has been shown to exhibit a low order of toxicity. Nevertheless, precaution should be taken to prevent inhalation, ingestion or contact with skin or eyes. Observing basic industrial hygiene precautions should prevent any health or safety hazards.

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