

TRAMFLOC, INC.

P. O. Box 350 Tempe, AZ 85280-0350 Voice: 480-491-6895 Fax: 480-456-1664

Technical Information Bulletin

TRAMFLOC® 1009 SUPERABSORBENT POLYMER

Product Description

Tramfloc® 1009 is a water absorbing soil conditioner. Tramfloc® 1009 is a cross-linked copolymer of acrylamide and potassium acrylate used to absorb and retain large quantities of water and nutrients. Tramfloc® 1009 is supplied as a white granules with particle sizes of 0.9-2.0 mm.

Uses

Tramfloc® 1009 is applied in agricultures, horticulture, forestry, mining and other operations where moisture retention is required. Tramfloc® 1009 has an anionic character and is 100% active with a maximum moisture content of 10 per cent. Tramfloc® 1009 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® 1009 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/m³ in mixed to substrates consisting of sand, peat and compost; 50-100 g/m² in broadcasting;

Packaging, Handling and Storage

Tramfloc® 1009 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^oF. 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® 1009 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.

The above data is based upon information Tramfloc, Inc. believes reliable and is supplied for informational purposes only. Tramfloc, Inc. disclaims any liability for damage or injury which results from the use of the above data and nothing contained herein shall constitute a guarantee, warranty (including warranty of merchantability or fitness for a particular purpose) or representation (including freedom from patent liability) by Tramfloc, Inc. with respect to the accuracy or completeness of the data, the product described, or their use for any specific purpose even if that purpose is known to Tramfloc, Inc. The final determination of the suitability of the information, the manner of use of the information or product and potential infringement of patents is the sole responsibility of the user.