

TRAMFLOC, INC.

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Technical Information Bulletin

TRAMFLOC® 1001H SUPERABSORBENT POLYMER

Product Description

Tramfloc® 1001H is a water absorbing soil conditioner. Tramfloc® 1001H is a homopolymer of sodium acrylate used to absorb and retain large quantities of water and nutrients. Tramfloc® 1001H is supplied as a white powder with sizes of ~0.1 mm.

Uses

Tramfloc® 1001H is applied in agricultures, horticulture, forestry, mining and other operations where moisture retention is required. Tramfloc® 1001H has an anionic character and is 100% active with a maximum moisture content of 10 per cent. Tramfloc® 1001H 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® 1001H is as follows. a) deionized water.....380; 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.....10; e) stability of swollen product in sandy soil, years.....2-4; g) approximate bulk density: 0.8. The CRC test result is >10. Absorption against pressure at 0.7 psi is >5. The residual monomer content is <1500 ppm. Specific gravity ranges from 0.6-0.8.

Particle Size Distribution	EDANA WSP 220, %
> 850 µm	< 2
106-150 µm	< 8
< 106 µm	< 5

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, 25-50 kg/hectare.

Packaging, Handling and Storage

Tramfloc® 1001H is available in 1000 kgs sacks, packed 20/TL. Storage temperatures should be between 32-100 °F. Unopened bags are hygroscopic and should be stored in a cool, dry place. Shelf life is about 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. Polymer can be disposed of according to local regulations or treated with an absorbent material, then collected for subsequent legal disposal. Tramfloc® 1001H 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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