

TRAMFLOC, INC.

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Technical Information Bulletin

TRAMFLOC® 1040 TABLET FLOCCULANT

Product Description

Tramfloc® 1040 tablet flocculant is a fast release anionic, granular polyacrylamide polymer of very high molecular weight produced as an effervescent tablet. Tramfloc® 1040 is completely water soluble and safe to apply. Tramfloc® 1040 is used to control erosion in agricultural fields, on river banks, on construction slopes, to precipitate solids in muddy water bodies, mineral slurries, mine tailings, and in marble and granite cutting.

Background and Benefits

Tramfloc® 1040 tablets are very efficient soil conditioners applied to control erosion in agricultural applications. Agriculture consumes ~70% of the world's soft water but two-thirds is lost to evaporation, run-off and percolation into the soil. The judicious application of Tramfloc® 1040 soil conditioners can reduce water losses by 35%. Depending upon the type of soil and method of irrigation, Tramfloc® 1040 increases the amount of water available to the roots while lowering the overall consumption of irrigation water. Water run-off, erosion, and lixiviation are greatly reduced, increasing savings in completion products such as fertilizers and soil amendments. Simple injection into the irrigation water system or slow tablet dissolution allows just a few ppm of polyacrylamide to viscosify the water. It will then form aggregates of fine particles on the soil's upper level where roots are formed. These aggregates will change the soil's porosity and enhance the water retention. Under most irrigation conditions about one-third of the water loss is due to run-off and lixiviation. Independent studies and full-field testing conducted in both the USA and Pacific Rim have demonstrated that the same production is reached while irrigating less frequently and applying less water per occurrence. Tramfloc® 1040 also reduces the losses by lixiviation of nutritional elements which are stored in the rooting zone prior to uptake. Tramfloc, Inc. also makes these special polyacrylamides in tablet, granular and emulsion forms to suit almost every application.

Usage Information

Tramfloc® 1040 is designed to dissolve immediately upon contact with water. The product is also used in water clarification and infiltration applications. Tramfloc® 1040 will viscosify water and flocculate fine soil particles, mud, clays and silt rapidly. Tramfloc® 1040 is also applied as a soil conditioner to control soil erosion and application rates with vary with soil type, field slope and water volume in the head ditch. Tramfloc® 1040 tablet flocculant is applied in operations where the traditional emulsion or granular flocculants cannot be effectively applied without excessive costs. Tramfloc® 1040 tablet flocculant clarifies unstable, fine soil particles to clean the water.

Mixing and Dosage

For settling of soil fines, mineral fines or general debris, Tramfloc® 1040 should be dosed at the rate of one tablet to 250 gallons of water will produce a 5 ppm dosage. The product mixes evenly with proper agitation of < 400 rpm and is quite stable. The tablet is of particular importance where capital intensive polymer make down equipment would be impractical to install. Tramfloc® 1040 tablet flocculant does not require expensive

dosing systems, can be added to water tanks,

Packaging

Tramfloc® 1040 is available in 44# or 20 kgs net weight pails, packed 36 pails/pallet. Each tablet weighs 50 grams and has a 45 mm diameter. There are about 440 tablets per pail.

Handling and Storage

Handle all industrial chemicals with care and consult the material safety data sheet before product use. Tramfloc® 1040 should be stored in a cool, dry place, < 100° F, for up to one year.

Safety and Health

Spills of polymer are extremely 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 flushed with copious amounts of water and disposed of according to local regulations or treated with an absorbent material, then collected for subsequent legal disposal. Tramfloc® 1040 has been shown to exhibit a low order of toxicity. Nevertheless, precautions 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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