

TRAMFLOC, INC.

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Technical Information Bulletin

TRAMFLOC® 1036 and 1037 SOIL CONDITIONING POLYMERS

Product Description

Tramfloc® 1036 and 1037 erosion control and soil conditioning polymers are highly concentrated aqueous solutions of high molecular weight anionic polyacrylamides. Tramfloc® 1036 and 1037 are completely water soluble, biodegradable and safe to apply. Tramfloc® 1036 and 1037 are used to control soil erosion, field run-off, furrow reshaping, and promote plant growth on slopes. These formulations reduce hardening and crusting of irrigated soils, reduce fertilizer and pesticide run-off, while improving water infiltration.

Background and Benefits

Tramfloc® 1036 and 1037 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 these Tramfloc® anionic polyacrylamide formulations can reduce water losses by 35%. Depending upon the type of soil and method of irrigation Tramfloc® 1036 and 1037 increase 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 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® 1036 and 1037 also lower the losses by lixiviation of nutritional elements which are stored in the rooting zone prior to uptake. Tramfloc, Inc. makes these special polyacrylamides in tablet, granular and emulsion forms to suit almost every application.

Additional Use Information

Tramfloc® 1036 and 1037 reduce water requirements, abate dust and reduce crust formation. Tramfloc® 1036 and 1037 will function across the pH range. See www.tramfloc.com for additional product application data.

Mixing and Dosage

Tramfloc® 1036 and 1037 should be dripped or metered into irrigation water upstream to a point of great turbulence to allow for effective dilution and economical application.

Packaging

Tramfloc® 1036 and 1037 are available in 55 gallon drums, 5 gallon pails, 275 gallon tote bins and in bulk.

Handling and Storage

Handle all industrial chemicals with care and consult the material safety data sheet before product use. Tramfloc® 1036 and 1037 products should be stored in a cool, dry place.

Safety and Health

Spills of polymer are extremely slippery. Precautions should be taken to prevent them from entering lakes or streams. 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® 1036 and 1037 products have 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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