

TRAMFLOC, INC.

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Technical Information Bulletin

TRAMFLOC® 1038 SOIL CONDITIONING POLYMER

Product Description

The Tramfloc® 1038 soil conditioning polymer is a granular high molecular weight anionic polyacrylamide. Tramfloc® 1038 is completely water soluble, biodegradable and safe to apply. Tramfloc® 1038 is used to control soil erosion, field run-off, furrow reshaping, and promote plant growth on slopes. This formulation reduces hardening and crusting of irrigated soils, reduces fertilizer and pesticide run-off, and improves water infiltration.

Physical Chemical Properties

Appearance	White powder
Ionic character	Anionic
Molecular weight	Very high
Approx. bulk density (g/cm ³)	0.8
Brookfield viscosity (cps)	
@5.0 g/l	1800
@2.5 g/l	700
@1.0 g/l	300
Dissolution time at 5 g/l in water @25°C (minutes)	90
Usable pH range	5 - 9
Storage temperature (°C)	0 - 35
Shelf life (months)*	24

*When stored inside a building at a stable temperature between 0° and 35°C.

Content Analysis

Active ingredient

- 90% linear anionic copolymer of acrylamide and sodium acrylate (PAM)

Inert ingredients

- 10% humidity

Acrylamide monomer

- ≤500 ppm w/w

Application Rates

Tramfloc® 1038 rates will vary depending upon soil type, field slope and water volume in head ditch. Rate adjustments can be made during irrigation based on observed results. Product should be applied just after planting time or other soil disturbance but prior to irrigation or rainfall. Do not water prior to Tramfloc® 1038 application as soil structure will begin to breakdown. If crust has formed as a result of previous irrigation or rain, Tramfloc® 1038 will not reestablish soil structure.

Dosage in a surface irrigation system	1 – 3 kg/ha
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Dosage in a volume of irrigation water	3 – 10 ppm
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Additional Use Information

Tramfloc® 1038 reduces water requirements, abates dust and reduces crust formation. Tramfloc® 1038 will function across the pH range. See www.tramfloc.com for additional product application data.

Mixing and Dosage

Tramfloc® 1038 solution of 0.50% by weight 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® 1038 is available in 25 kgs net weight bags and 750 kgs sacks.

Handling and Storage

Handle all industrial chemicals with care and consult the material safety data sheet before product use. Tramfloc® 1038 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. 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® 1038 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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