

SourceStop Technical Description

SourceStop™ is a suspension of colloidal activated carbon particles. The particles are suspended in water through the use of food grade organic polymers. Because of its liquid form and very small particle size, SourceStop is easily mixed into unsaturated soils/sediments, readily coating the soil particles. It is designed for use in stabilizing organic chemical contaminants within soils to greatly minimize the potential for future leaching.

SourceStop can also be poured or injected directly into both unsaturated and saturated soils. When injected it easily disperses within contaminated aquifer materials. This is unlike powdered activated carbon (PAC) products of larger particle size which require high pressure injection (fracking) for emplacement and do not disperse.

Once in place, SourceStop rapidly sorbs contaminants restricting their leaching from unsaturated soils and immobilizing contaminants within aquifers.



Chemical Composition

- Water - CAS # 7732-18-5
- Colloidal Activated Carbon $\leq 10 \mu\text{m}$ - CAS # 7440-44-0
- Sodium Bisulfite - CAS # 7631-90-5
- Proprietary Additives

Properties

Physical State	Liquid
Form	Aqueous suspension
Colour	Black
Odour	Odourless
pH	8-10

Contaminants Treated

Organic contaminants such as PFAS constituents

Form

Aqueous suspension of colloidal activated carbon particles and additives. Black in colour.

Particle Size

1-2 micrometer particles

Application

Sprayed onto soils during mixing. Injected under gravity feed or low pressure into undisturbed soils and aquifer materials. Not injected above fracturing pressures.

Packaging

181.4kg drum or 907kg IBC

Storage and Handling Guidelines

Storage

Store in original tightly closed container

Store away from incompatible materials

Do not allow material to freeze

Do not store in direct sunlight

Store in temperatures between 4°C and 35°C

Handling

Avoid contact with skin and eyes

Avoid prolonged exposure

Observe good industrial hygiene practices

Wash thoroughly after handling

Wear appropriate personal protective equipment

Health and Safety

Product is non-hazardous. Dispose of waste and residues in accordance with local authority requirements. Please review the Safety Data Sheet for additional storage, usage, and handling requirements.



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