Chembase Treatment System
Environmental Statement

14th January 2021

Chembase Treatment System

The Chembase Treatment System for soil stabilisation was developed with environmental sensibility and responsibility in mind.

Chembase International Pty Ltd controls the selection of raw materials and raw material suppliers to ensure that the production of our products have no detriment on the environment. All raw materials are free of the common environmentally harmful nonylphenol ethoxylate surfactants and no unstainable palm oil derivatives are used. The “Organic Substances” do not contain any environmentally toxic heavy metals.

The suppliers of the product’s raw materials are reputable Australian based companies with transparency around product quality and supply chains to ensure they maintain a high level of environmental protection and prevent contamination of the products.

The unique chemistries of the Chembase Treatment System include a Polymer Stabiliser that is classed as non- hazardous. It is 100% biodegradeable, water miscible and presents a minimal environmental detriment in soils. The breakdown products are benign with the final entities being elemental carbon, nitrogen, and oxygen.

Because of its surfactant properties, the Chembase Polymer Stabiliser will present a potential detriment in aquatic systems; therefore, it is recommended that the product in containers is bunded when near waterways. Also, applications are required to be well clear of waterways. A distance of at least 30 metres from a waterway is recommended for any application.

The product does not fume nor emit gases that will impact the environment.

The Chembase Activator is a mildly acidic product that is classed as corrosive so is required to be contained and bunded to prevent direct contact with flora and fauna. The product does not fume nor emit gases that will impact the environment.

This Chembase Activator must be prevented from entering waterways or being washed into waterways as it will quickly reduce water pH and also, due to its cationic nature will severely negatively impact the respiration on fish and amphibians.

The Chembase Activator in the soil will tend to bind with soil particles due to its cationicity and not move through a soil profile. The Chembase Activator will mobilise with water in very high sandy soils (due to sandy soils having a very low anionic charge).

The Chembase Treatment System involves the spray addition of the Chembase Polymer Stabiliser followed by the Chembase Activator. When these components have been combined in the correct ratios as directed by Chembase technicians, a water insoluble compound is formed which will not mobilise in the soil or through any water flows and instead stays locally in the soil where it is applied.

In the event that, the stable final compound enters a waterway, it will biologically degrade slowly and not present a detrimental impact to the aquatic environment. The final breakdown entities are elemental carbon, nitrogen, oxygen, and aluminium.

Simon Lewer
Technical Director
Gauge Industrial and Environmental Pty Ltd

Sydney office: 10 Victory Ave.
Camden, NSW, Australia, 2570.

Mobile: +61-(0)-404 951681
www.gauge.com.au