

ByoHumic

PRODUCT DESCRIPTION

Soil Contamination Remediation

ByoHumic is a proprietary humified soil extract. The product works by providing an organic substructure with an extremely high ion exchange capacity that ions can bind and be charged neutralized (via an ionic bond).

APPLICATION

Soil with High Salinity

Application rates and the number of applications necessary will vary with the severity of the salt conditions. As a rule of thumb, salt levels in excess of 10,000 ppm will require more than one application. See dosage tables for soil and solution dosages. For the application to the soil, the recommended product dosage should be diluted with enough water to insure complete coverage and if required, soaking to the appropriate soil depth. For the solution application, add the product to the contaminated water, insuring adequate mixing prior to discharge. Once diluted, product must be used within 24 hours. If soil temperature is below 45°F, performance is significantly reduced.

Soil with Very Little or no Salinity

Preventative rates should start at two gallons (mixed with 18 gallons of water) per acre to be applied quarterly.

DOSAGE TABLES

SOIL

Salt (NaCl) Level, ppm	Initial	Subsequent	Salt (NaCl) Level, ppm	Initial	Subsequent
0 - 2,500	1.0	1.0	15,000 - 20,000	12.0	5.0
2,500 - 5,000	2.0	1.0	20,000-100,000	15.0-35.0	10.0
5,000 - 10,000	5.0	2.0	100,000	55.0-75.0	15.0
10,000 - 15,000	8.0	2.0			

Initial and subsequent application dosages are in gallons of product per acre-Foot

SOLUTION

Salt (NaCl) Level, ppm	Dosage
0 - 2,500	0.30
2,500 - 5,000	0.60
5,000 - 10,000	1.50
10,000 - 15,000	2.5
15,000 - 20,000	3.5
20,000-50,000	4.5-10.5
50,000-100,000	10.5-20.0

Dosage = gallons of product per 10,000 gallons

TYPICAL PHYSICAL PROPERTIES

- Appearance Liquid
- Color Dark Brown to Black
- Odor Musty to Earthy
- Solubility in water 100%
- pH Neat 7.0-8.0
- Density 8.5 lbs/gal (1.02 kg/L)

STORAGE AND HANDLING

Ingredients not precisely identified are non-hazardous. Do not ingest. May cause sickness if ingested in large quantities. Prolonged contact with skin may cause irritation. Safety glasses and gloves, as a minimum, are recommended when handling. Keep container closed when not in use. Store product in a dry and cool area. See Safety Data Sheet (SDS) for other safety and handling information.

PACKAGING

Shipped from the manufacturing facility and regional distribution centers in 5 gallon, 55 gallon and 265 gallon containers. Bulk quantities are available upon request.