

H₂S Scavenger

Zen Earth H₂S Scavenger is a concentrated formula that demonstrates a high efficiency in selectively removing H₂S in refinery gas treating units, where sour gases are generated from Fluid Catalytic Cracking (FCC) and Coker facilities. The main characteristic of the system running with this formulated solvent is the greater CO₂ slip in the absorber towers. The richer H₂S presence in the acid gas stream enhances the productivity of the Claus thermal oxidative unit and reduces the formation of sub products.

While it is typical that there are high rich loadings for CO₂ from the primary and secondary amines, it was almost five times lower when using Zen Earth H₂S Scavenger treatment. The cold rich amine stream also showed a lower temperature for Zen Earth H₂S Scavenger treatment, which represents less energy being released during the acid-base reaction. Lower energy in absorption processes means less energy spent at the regeneration unit.

Zen Earth H₂S Scavenger is a readily biodegradable plant-based solvent that is effective in the removal of acid gas impurities. Additional benefits include:

- Selectively removes H₂S, resulting in a purer H₂S stream
- Less corrosive and requires less energy
- Concentrated product/water dilution rate of 1:150-300
- Formulated from a variety of readily available plants and minerals.
- Fully biodegradable, and will not contaminate or pollute the environment
- Non-flammable
- Non-hazardous chemical, and there are no special handling procedures required
- Safe to wash into drains and waste systems



The active ingredients behind all "green" Zen Earth cleaning, solvent and lubricating products are combinations of various readily biodegradable plants and naturally occurring minerals. Zen Earth's proprietary, renewable, chemical/mechanical process creates a truly unique product that is safe for human use and for the environment. It is effective and versatile.

All Zen Earth active ingredient formulas are effective as a result of the creation of electrically charged particles known as micelle. When activated in water, micelles repel each other in a ceaseless random movement. Measuring only 2 – 4 nanometers in size, their extreme surface-area-to-volume ratio enables far greater efficacy than conventional technologies or formulas. Micelles do not produce a chemical reaction that generates new compounds when introduced into another material or the environment, instead they break down carbon based compounds into smaller particles that can be easily assimilated and metabolized by normal soil or water microorganisms.

ZEN EARTH PRODUCTS ARE:

- Bio-Based
- Readily Biodegradable
- Non-Toxic
- Non-Corrosive
- Non-Hazardous
- Non-Caustic
- Non-Flammable
- Non-Cancer Causing

DO NOT CONTAIN:

- Ozone Depleting Substances
- Petroleum Distillates
- Glycol Ethers
- Caustics
- California Proposition 65 Chemicals

