

### PROPERTIES AND MODE OF ACTION

**ALOECIDE PLUS™** is a sustainable biocide supplement for use at oil & gas industry, petrochemical and mining industries, among other industrial sectors. At oil & gas industry, it is used at geological formations, injection and production wells, squeeze treatments, surface installations, boilers, pipes, cooling towers and oil/gas pipelines.

**ALOECIDE PLUS™** is an **aloe-based extract**, it is biodegradable, it does not have chemicals, toxic components or heavy metals, and it comes from a plant that is a renewable material. **ALOECIDE PLUS™** is a stronger formulation, and a proprietary formulation developed by Aloetrad America LLC, based on aloe polysaccharides and anthraquinones..

The product offers various properties

- Anthraquinone is bacteriostatic to SRB in micromolar concentrations.
- Anthraquinone is not toxic to plants and animals
- It is chemically inert in the presence of typical components in a biofilm.
- It can be transported very easily in the biofilm on the wall of a tank or a pipe, making contact with the SRB and without reducing its concentration.
- Anthraquinone, decouples the electron transfer process in sulfate reducing bacteria (SRB) that is required for the respiration of the bacteria using sulfate. When this metabolic pathway is blocked, SRBs are unable to reduce sulfate to H<sub>2</sub>S.
- Offers high effectiveness in most metals used in industries and affected by the presence of bacteria.
- Reduces and minimizes the environmental impact of the operations of the affected industries.
- It is suitable for use at high temperatures and high water hardnesses
- It does not affect sea, lakes aquifers, rivers, streams, ponds or water reservoirs
- It has no problems or limitations for its disposal, and can be dumped into industrial drainage
- Suitable for use at high temperatures and hardness water
- The product is manufactured with sustainable technologies
- It is safe for staff

### INSTRUCTIONS FOR USE

- Product may be used at any industrial process where biocides are required.
- It is a sustainable supplemental biocide for frequent use at Oil & gas industry, petrochemical, mining and other industries

## ALOECIDE PLUS™

### MANUFACTURER

MAKEN PROYECTOS INDUSTRIALES SA DE CV  
MATAMOROS 819, NAVOJOA, SONORA, MEXICO  
85820

### COMPOSITION

Proprietary formula based on extracts of aloe (Aloe Barbadensis Miller and Aloe Ferox), thickeners, preservatives. The product is a biological biocide with 99% of material of natural origin and from renewable resources.

### PHYSICAL & CHEMICAL PROPERTIES

Appearance and color: clear green liquid.

Odor: strong vegetable smell.

pH: 3.6/5.0

Flashpoint: N/A.

Relative Density: 1.005 to 1.030

Solubility in water: complete

### TOXICITY

It is not a toxic product. It does not create bioaccumulation. Neither polluting for humans nor plant, animal or aquatic world species.  
Biodegradable according to OECD 301.

### RECOMMENDED DOSE

It depends on industry and specific case.

Please consult with our Technical Department.

### STORAGE AND TRANSPORTATION CONDITIONS

Keep the product in a cool and dry place, away from sources of heat, direct fire or sources of ignition. **DO NOT EXPOSE TO THE SUN. Recommended storage temperature: 20° C.**

**PRODUCT PRESENTATION:** Drum 55 gal - 200 Lts. – IBC Tote of 1,000 Lts.

