



# OilCure

INNOVATIVE ENVIRONMENTAL REMEDIATION

## MINING INDUSTRY



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## AllCure

*Think beyond green!*

# GOALS TO BE ACHIEVED THROUGH TESTING

## Main goals needed to be achieved through testing:

- ☉ Reduce the current spend on harmful chemicals
- ☉ Reduce and prevent further pollution (soil, air, water)
- ☉ Prevent fire hazards (non-flammable product)
- ☉ Prevent further damage to equipment by corrosive materials

## Objectives Set:

- ☉ Make use of the BioRem Mutli Surface Cleaner and Oil Vanisher to clean soiled areas, equipment and oil spills
- ☉ Test products on oil spills and cleaning equipment

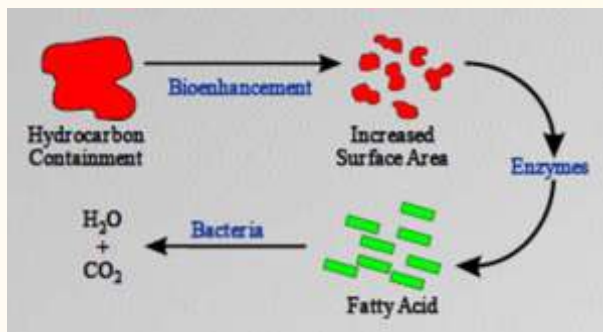
## Looking Closer at the Products Used

### BioRem Multi Surface Cleaner

- ☉ Remediates into water & carbon dioxide
- ☉ Renders flammable liquids as petrol and jet fuel non-flammable
- ☉ Water based and odourless
- ☉ Non-toxic, non-corrosive and nonhazardous
- ☉ Compatible with all types of cleaning equipment
- ☉ SABS approved
- ☉ BioRem Mutli surface cleaner use state-of-the-art microbe technology to provide superior cleaning results without the disposal costs and safety risks of traditional solvent and surfactant-based cleaners.

### Oil Vanisher

- ☉ Powerful blend of 12 strains of microbes and botanical blends designed to digest hydrocarbons in waste water applications
- ☉ Breaks down oil into water and carbon dioxide
- ☉ Reduces BOD, COD and TSS levels in waste water operations up to 90%
- ☉ Effluent quality is improved, reducing discharged pollutants.
- ☉ Strong residual effect – continues to work for days after application.
- ☉ Bio-based, all-natural and biodegradable.



### Biological Cleaners Versus Caustic and Solvent-Based Cleaners:

- ☉ Microbe-based cleaners differ from solvent and caustic-based systems by using a non-toxic and pH neutral solution that does not require special handling or disposal.
- ☉ Caustic and solvent-based cleaners lose their performance quickly, as oils and greases damage the cleaning solution.
- ☉ Biological cleaners maintain performance over very long periods, as oils and greases are broken down into carbon dioxide and water by the microbes in the system

## Cleaning and Treatment Process

### CLEANING

- ☉ All cleaning dilutions were calculated on specific applications and problem areas
- ☉ The oil stains and equipment was cleaned on site
- ☉ Both the BioRem Multi Surface Cleaner and BioRem Oil Vanisher were applied using high pressure hosing systems with and additional foaming nozzle to increase contact time
- ☉ After the products was applied, the workshop and equipment was washed down with clean water and left to dry. Because of the products used the floor was non-slip because oil has been digested by product.
- ☉ The Dilutions of each product were worked out according to specific requirement after site assessment, and thus the following dilutions were used:
- ☉ BioRem Multi Surface Cleaner 1L : 100L Water (Dilution 1:100) (application differs according to spec)
- ☉ BioRem Oil Vanisher : product provided ready to use (RTU)





## Cleaning and Treatment Process

### TREATMENT

- ④ The treatment process of the soiled/contaminated area was done by hosing it down, applying product with a high pressure foaming nozzle
- ④ BioRem Multi Surface Cleaner and BioRem Oil Vanisher was used to conduct all treatment processes
- ④ BioRem Multi Surface Pro was applied via a high pressure hose foaming system, this application allows for a longer contact time. The soiled area is then agitated with a brush and or single disk with brush and or auto scrubber.
- ④ After the agitation process clean water is used to wash away and let dry or scrubber and squeegee is used to suck up the water.
- ④ Process repeated as per cleaning scope per site.

## The Science Q's and A's:

**Was this product tested in the mining industry and does it comply according to Mining Engineers?**

- ④ These products complies with Environmental management System in accordance with ISO14001 and was tested by Mining Engineers.
- ④ Used effectively in the emergency clean up of plant oil/water separators
- ④ Used successfully to clean up oil spills