

## E-SAFE<sup>®</sup> Environmentally-Safe Cleaner

This concentrated, multipurpose and unique cleaner of hydrocarbon contaminants far exceeds the efficiency of usual degreasers and emulsifiers normally used in the oil and transportation industry.

**PLUTUS E-SAFE<sup>®</sup>** neutralizes hydrocarbon based oils and greases by molecular conversion into harmless, non-toxic compounds. Those oils and greases are converted via saponification to a "soap like" compound which in turn cleans separators and drain lines. The resultant runoff is water soluble and is safe for disposal in sanitary sewers, soil, or open seas.

**NOTE:** *State and Local Regulations should always be reviewed in order to determine what can be discharged into municipal sewer systems.*

### USES FOR PLUTUS E-SAFE<sup>®</sup>

**PLUTUS E-SAFE<sup>®</sup>** is very effective cleaning solution for use in a variety of commercial and industrial uses, especially:

- ◆ Petroleum/crude oil fill racks
- ◆ Oil and water separators
- ◆ Storage tank & pipeline exterior surfaces including valves, manifolds and railings
- ◆ Chain hoist lube craters
- ◆ Engine blocks & parts
- ◆ Maintenance & repair facility floors
- ◆ Fuel spills and traffic accident cleanup

**PLUTUS E-SAFE<sup>®</sup>** is cost and time effective for remediation of hydrocarbon contaminated soils.

### APPLICATION INSTRUCTIONS

#### — GENERAL HARD SURFACE CLEANUP —

- Step 1.** Before beginning any treatment process make sure all SAFETY GUIDELINES and PROCEDURES are in place. If in doubt about correct procedure, then check with SAFETY OFFICER or OSHA before proceeding. PLUTUS Environmental Technologies, Inc. or its associated or subsidiary companies shall not be held liable or at risk for any safety violations or errors by the user.
- Step 2.** Recover all standing hydrocarbons possible for disposal or recycling.
- Step 3.** Apply PLUTUS E-SAFE<sup>®</sup> with sprayer or power wash unit. If power wash unit is not used then the application should be allowed to set for 2 to 5 minutes to penetrate the buildup.

**Step 4.** Rinse remaining residue with clean water. Hot water is preferred but not required.

**Step 5.** If an unacceptable amount of buildup remains repeat Steps 2-4 until satisfactory.

#### — HYDROCARBON CONTAMINATED SOIL —

- Step 1.** Before beginning any treatment process make sure all SAFETY GUIDELINES and PROCEDURES are in place. If in doubt about correct procedure, then check with SAFETY OFFICER or OSHA before proceeding. PLUTUS Environmental Technologies, Inc. or its associated or subsidiary companies shall not be held liable or at risk for any safety violations or errors by user.
- Step 2.** Recover all hydrocarbons possible. Solids or liquids often collect in pockets or seeps. If these volume amounts can be removed for disposal or recycling then the volume of application of PLUTUS E-SAFE<sup>®</sup> will be reduced.
- Step 3.** Thoroughly till or cultivate the soil with mechanical equipment. The soil should be cultivated as deeply as necessary depending upon the severity of the contamination.
- Step 4.** Apply PLUTUS E-SAFE<sup>®</sup> with spray wash or irrigation equipment until soil is fully saturated. Initial treatment is 1 gal./100 sq. ft. of contaminated surface.
- Step 5.** Allow the application to penetrate the soil for at least 8 hours. In the event rainfall occurs, the process will not be harmed, but will actually be enhanced.
- Step 6.** If no rainfall occurred during Step 4. water should be applied to contaminated area to resaturate the soil. This water application should be allowed to penetrate for at least 4 hours.
- Step 7.** Cultivate again when soil has dried and test for hydrocarbon contamination. If hydrocarbons are still present at unacceptable levels another application may be needed. Repeat Steps 1-7 until desired level is achieved.
- NOTE:** *Sandy soils and non-compacted gravel areas may be effectively treated without being tilled or cultivated.*