

# Oil Spill Cleanup Of Inland Marshes And Beaches Utilizing Environmentally Safe Shoreline Cleaner

E-Safe™



E-Safe™ Licensed Shoreline Cleaner  
2010 Usage Guide



E-Safe® = Safety, Quality & Reliability.



E-Safe™ being used in United Kingdom to treat hydrocarbon contaminated soil at a fueling depot in Lincolnshire.

## Using E-Safe® In The United States

E-SAFE® is Listed in US-EPA NCP NPS Technical Product Bulletin SW-33 as a Surface Washing Agent.

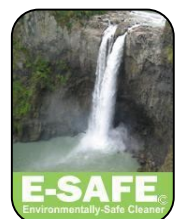
E-SAFE® is licensed by the State of California as a Shoreline Cleaning Agent.

This is the highest rated listing for an environmental remediation product.

### Disclaimer

E-SAFE® is on the U.S. Environmental Protection Agency's NCP Product Schedule. This listing does NOT mean that EPA approves, recommends, licenses, certifies, or authorizes the use of E-SAFE® on an oil discharge. This listing means only that data have been submitted to EPA as required by subpart J of the National Contingency Plan, Sec. 300.915.

E-SAFE® is Listed in United Kingdom as a Surface Modifier.



# What Is E-Safe® and How Does It Work?

E-SAFE® is an environmentally safe non-toxic chemical blend that is formulated to break down hydrocarbon spills such as crude oil or diesel fuel into trace minerals, simple sugars, elemental carbon and water.

The remaining compounds or residues are simple sugars, elemental carbon, trace minerals and water.

E-SAFE® is a non-hazardous, non-toxic safety product and will not harm your hands or skin, nor the environment, animals or fish. Use 10 parts water or salt water to 1 part E-SAFE® dilution to clean oiled waterfowl.

E-SAFE® has been laboratory tested and will not harm delicate red abalone larvae, which is the standard for State of California licensure of shoreline cleaners.

E-SAFE® attaches to the hydrocarbon chain (molecule) on contact, breaking it down into smaller factions, resulting in a by product of simple sugars, elemental carbon, trace minerals and water – leaving only a residual food source for naturally occurring bacteria .



E-SAFE® is infinitely soluble in water and can be mixed with salt water for high volume spray applications.

E-SAFE® neutralizes acids and breaks emulsions.

## **INSTRUCTIONS FOR USE**

Spray E-SAFE® at full strength on crude. or in dilution with salt water for spills occurring on inland marshes and along shorelines such as beaches, grass or heavy foliage.

# **PLUTUS E-SAFE®**

**Environmentally-Safe Cleaner**

## **MATERIAL SAFETY DATA SHEET**

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PLUTUS Environmental Technologies, LLC, USA  
U.S. Department of Labor, Occupational Safety and Health Administration  
(non-mandatory form)  
Form Approved OMB N. 1218-0072  
May be used to comply with OSHA Hazard Communication Standard, 29 CFR 1910.1200.  
Standard must be consulted for specific requirements.

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### **Section I - EMERGENCY DATA**

**EMERGENCY PHONE NUMBER: ++1 (865) 453-0060**  
**FLASH POINT: NONE**  
**IDENTITY: PLUTUS E-SAFE® Environmentally-Safe Cleaner**  
**DESCRIPTION: Non-Toxic Hydrocarbon Saponification Agent**

Manufactured by: PLUTUS ENVIRONMENTAL TECHNOLOGIES LLC, 807 Mize Lane, Sevierville, TN 37862-3027 USA  
Date Prepared: 12-10-2002 (Update of V.8-6-2000 & V.6-1-1999)  
Preparer's Name: Jim Hatcher

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### **Section II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION**

NONE; BLEND OF EMULSIFIERS & SURFACTANTS IN AQUEOUS SOLUTION; CONTAINS 2ppm ORCOACID ORLTOFAST TURQ AND 2ppm FLOURESIN FOR IDENTIFICATION.

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### **Section III - PHYSICAL/CHEMICAL CHARACTERISTICS**

Boiling Point: H2O = 100oC  
Appearance: CLEAR GREEN COLOR  
Odor: LIGHT CITRUS  
Vapor Pressure: N/A  
Vapor Density: N/A  
Specific Gravity: H2O VARIES 1.04 TO 1.27  
Solubility in Water: INFINITE  
Melting Point: N/A  
Evaporation Rate: N/A

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## Section IV - FIRE & EXPLOSION HAZARD DATA

Flash Point: N/A  
Special Fire Fighting Procedures: N/A  
Flammable Limits: N/A  
Unusual Fire Hazards: NONE KNOWN  
Extinguishing Media: N/A  
Unusual Explosion Hazards: NONE KNOWN

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## Section V - REACTIVITY DATA

Stability: STABLE  
Hazardous Decomposition or By-Products: NONE KNOWN  
Incompatibility: NONE KNOWN  
Hazardous Polymerization: WILL NOT OCCUR  
Conditions to Avoid: NONE KNOWN, UNLESS WATER IS EVAPORATED; IF ALL AQUEOUS PHASE IS EVAPORATED, COMPONENTS WILL COMPLETELY VOLATIZE.

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## Section VI - HEALTH HAZARD DATA

Route to Entry: NO  
Inhalation: NO  
Skin: NO  
Ingestion: MAY CAUSE DIARRHEA  
Health Hazard (Acute & Chronic): MAY CAUSE DIARRHEA IF VOLUME INGESTED  
NIP: NO  
LARC: NO  
OSHA Regulated: NO  
Signs & Symptoms of Exposure: HANDS MAY REDDEN IF IMMERSED FOR SEVERAL HOURS  
Medical Conditions Generally Aggravated by Exposure: NONE KNOWN  
Emergency & First-Aid Procedures: IF INGESTED, DRINK QUANTITIES OF FRESH WATER; DO NOT INDUCE VOMITING. FLUSH EYES WITH WATER OR SALINE SOLUTION. CALL PHYSICIAN IF IRRITATION PERSISTS.

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## Section VII - PRECAUTIONS FOR SAFE HANDLING & USE

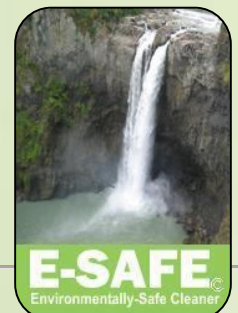
Steps to be taken in case material is released or spilled: MOP UP OR USE ABSORBENT MATERIAL; DISPOSE IN TRASH. RINSE SURFACE THOROUGHLY AND APPLY LOCAL SAFETY SPILL CLEAN-UP MEASURES AS NEEDED OR REQUIRED.  
Waste Disposal Method: MAY SAFELY BE Poured DOWN DRAIN  
Precautions to be taken in handling & storage: NONE KNOWN  
Other Precautions: N/A

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## Section VIII - CONTROL MEASURES

Respiratory Protection: N/A  
Ventilation: NONE NEEDED  
Local Exhaust: NONE NEEDED  
Mechanical: N/A  
Other Protective Clothing or Equipment: NONE NEEDED  
Work/Hygienic Practices: AVOID EXCESSIVE EXPOSURE

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**State of California  
Department of Fish and Game  
Office of Spill Prevention and Response**

**LICENSE FOR OIL SPILL CLEANUP AGENT**

ISSUED TO: PLUTUS Environmental Technologies, Inc.

<b>PRODUCT NAME:</b>	E-Safe © Environmentally Safe Cleaner
<b>PRODUCT CLASSIFICATION:</b>	Shoreline Cleaner
<b>DATE ISSUED:</b>	July 25, 2008
<b>EXPIRATION DATE:</b>	July 25, 2013

The applicant, having followed the procedures as outlined in Government Code Sections 8670.13.1 & 8670.13.2., and having submitted a proper application which was reviewed and found in order, is hereby issued this license.

Use of the product must be in strict compliance with referenced Government Code Sections and subsequent regulations.

The term of this license shall be for a period of five (5) years unless revoked prior to that date for good cause.

This license does not denote endorsement of the product by the Department of Fish and Game or any other State Agency.



Bud Leland  
Deputy Administrator  
Office of Spill Prevention and Response



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

27 NOV 2006

Mr. James F. Hatcher, Jr.  
PLUTUS Environmental Technologies, Inc.  
P.O. Box 5104  
Sevierville, TN 37864-5104

OFFICE OF  
SOLID WASTE AND EMERGENCY  
RESPONSE

Dear Mr. Hatcher:

Thank you for providing the technical product data required by the National Oil and Hazardous Substances Pollution Contingency Plan (NCP), 40 CFR Part 300, on your product "E-Safe®." After conducting our review, your data submissions have satisfied the requirements contained in Title 40 of the CFR section 300.915 of the NCP. "E-Safe®" will be listed on the NCP Product Schedule under the Surface Washing Agent (SWA) category and may be authorized for use by Federal On-Scene Coordinators in accordance with 40 CFR section 300.910. The technical data for this product will be kept on file by the Office of Emergency Management Regulation and Policy Division Oil Program Center pursuant to 40 CFR section 300.920.

Enclosed are some of the relevant provisions in the NCP on restrictions regarding the listing of your product. Please note, you are required to notify the Environmental Protection Agency (EPA) of any changes in composition, formulation, handling procedures, or application of your product. Based on this notice, EPA may require retesting of the product.

Also, note that the listing of "E-Safe®" on the NCP Product Schedule does not constitute approval, certification, authorization, licensing or promotion of the product; nor does it imply compliance with any criteria or minimum standards for such agents. Failure to comply with these restrictions or the making of any improper reference to EPA in an attempt to demonstrate approval or acceptance of the product will constitute grounds for removal of the product from the schedule.

Please review the enclosed information and contact Ms. Leigh DeHaven in the Office of Emergency Management at (202) 564-1974 if you have any corrections or questions.

Sincerely,

A handwritten signature in black ink, appearing to read "RCraigMatthiessen".

R. Craig Matthiessen, Director  
Regulation and Policy Development Division  
Office of Emergency Management

Through deployment of E-SAFE<sup>®</sup>, contaminated soil and shorelines can be returned to original pristine conditions, damage to the environment is averted and ecosystem balance can be restored.

For more information  
Tel (801-540-6338)  
[www.accendoenvironmental.com](http://www.accendoenvironmental.com)  
info@accendolc.com

**PLUTUS**<sup>®</sup>   
Environmental Technologies, Inc.

