

**SHEEN MAGIC<sup>®</sup>**

Hydrocarbon Sheen Remover



**plutus<sup>®</sup>**  
environmental solutions



Plutus Sheen Magic<sup>®</sup> is an environmentally safe, effective way to eliminate problems associated with hydrocarbon cleanup applications on the water without further harm to the environment.

Hydrocarbon is the fuel gas, oil or grease that enters waterways as a result of oil spills, leaks or drips, industrial practices or mishaps, motorway and railway accidents or waterway shipping incidents.



# SHEEN MAGIC®

Hydrocarbon Sheen Remover



## SHEEN MAGIC® Overview

- Breaks up hydrocarbon compounds converting them into nutrients for naturally occurring micro-organisms.
- Quickly and effectively treats estuary hydrocarbon sheen contamination.
- Rapid remediation time.
- Results in a greater savings in labour and reduced hazardous materials training for those involved with general maintenance operations.
- PPE is recommended but not required for application or storage.
- No need to cleanup spent minerals or compounds to remove or discharge.
- Contains no microbes, nitrates, phosphates, acids, detergents or harmful compounds.

Sheen Magic® is a new formulation which restores streams and lakes to pre-contamination quality. The formulation removes sheens normally associated with hydrocarbon spills.

Sheen Magic® actually removes the hydrocarbon induced problem by breaking the hydrocarbon chain. The contaminants are neutralised either by molecularly modifying them into a benign stearate or it is decomposed into a non hazardous, microbial nutrient that is consumed by naturally occurring microbes in the water.

Fuelling mishaps at marina fuel docks are one of the major causes of sheens on inland bodies of water. Often when a pleasure craft is refuelled, either at a marina, public ramp or home dock a spill occurs. These spills may amount to only a few drops or a gallon or more. A small amount of fuel can cause a spill that covers a wide area of water surface. Immediate control of the spills can prevent serious damage to the environment as well as costs for those responsible.

Treatment with Sheen Magic® is the best way to reduce and remove the hydrocarbon contamination of the water surface. Sheen Magic® reduces the hydrocarbon concentration faster and more effectively than any other product or treatment method. The reduction in hydrocarbon concentration is accomplished by the action of Sheen Magic® breaking down the hydrocarbon into smaller compounds which become nutrients or food for naturally occurring bacteria in the water. The bacterial action removes all hydrocarbons which results in clean uncontaminated water.

Treatment with Sheen Magic® is fast and easy. Small spills should be sprayed with a low pressure mist of sheen magic. The mist will immediately react with the hydrocarbons as described to destroy the hydrocarbon chain. The remediation is immediate.

Occasionally a layer will remain after treatment with Sheen Magic®. This layer is not hydrocarbon contamination but rather a floating emulsion of polymers from certain 2- cycle engine oils.



Treating spills with detergent will just emulsify the hydrocarbons which then sink to the bottom. These heavy hydrocarbon emulsions are dangerous to aquatic life and need to be avoided.

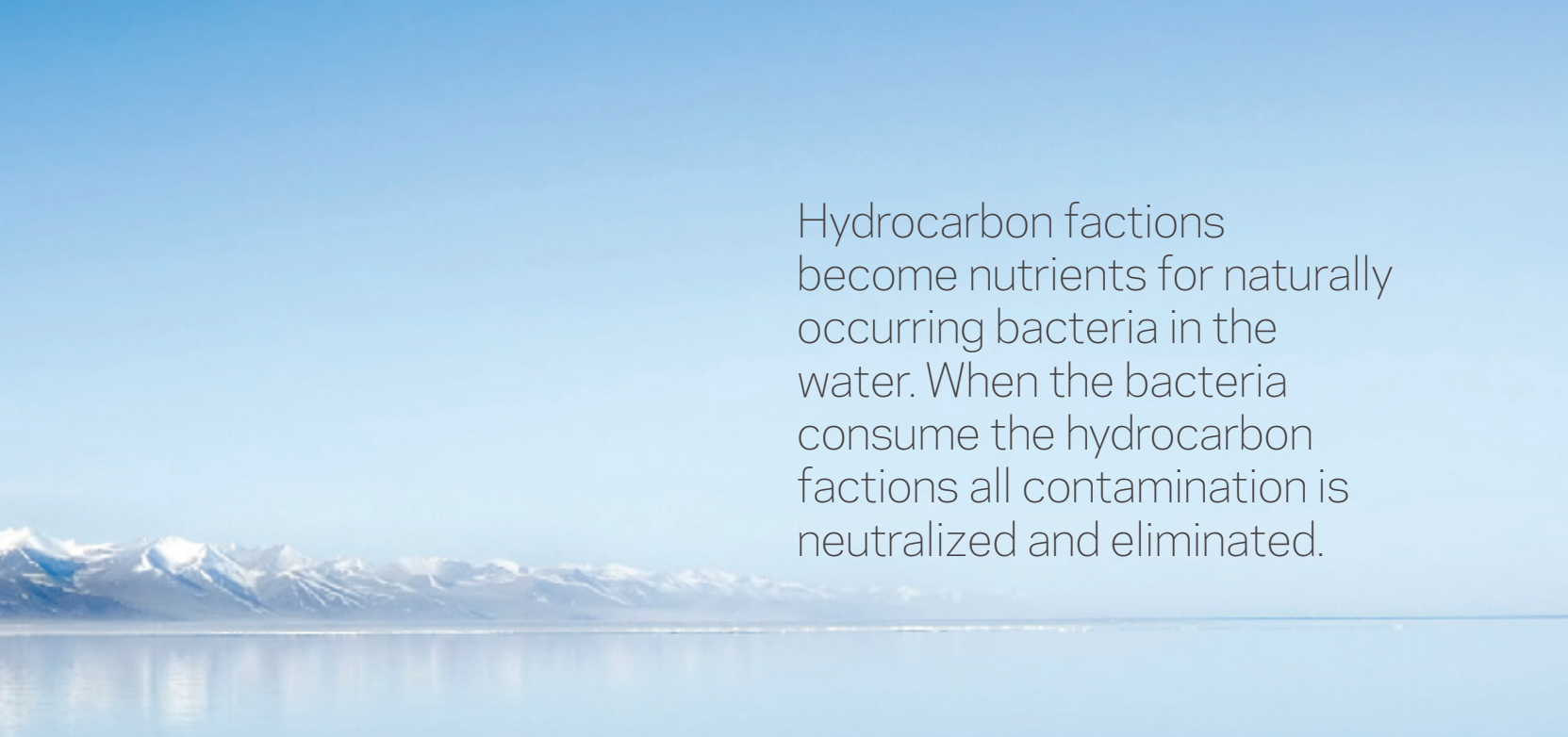
Large volume spills are treated in the same manner as small spills but a high volume, low pressure delivery system should be employed until all evidence of the sheen is removed.

Sheen Magic® is packaged in a convenient applicator spray bottle for home and marina use as well as bulk volumes for professional environmental remediation.

The end result of Sheen Magic® treatment of hydrocarbon spills is a reduced remediation time and cost, reduced assessments or fines and a cleaner environment.

Sheen Magic® is an easy to apply, non hazardous, tested solution for problems resulting from hydrocarbon contamination of waterways. (Sheen Magic® is US-EPA LD 50 and California Code 65 safe)

Unlike most products or procedures currently available to the remediation industry, Sheen Magic® is 0-0-0 Hazmat rated based on US LD50 and California 65 Guidelines.



Hydrocarbon fractions become nutrients for naturally occurring bacteria in the water. When the bacteria consume the hydrocarbon fractions all contamination is neutralized and eliminated.

#### DISCLAIMER

Sheen Magic<sup>®</sup> oil, petrol and diesel sheen remover is on the US Environmental Protection Agency's NCP Product schedule. This listing does not mean that EPA approves, recommends, licences, certifies or authorises the use of sheen magic for oil, petrol and diesel discharge. This listing means only that data has been submitted to EPA as required by subpart J of the National Contingency Plan, Sec. 300.915

## SHEEN MAGIC® - Usage Guidelines



This concentrated multipurpose and unique cleaner of hydrocarbon contaminates far exceeds the efficiency of the products normally used in hydrocarbon sheen remediation.

Plutus Sheen Magic® neutralizes hydrocarbon based oil and grease sheens by molecular conversion into harmless non toxic compounds. These compounds are consumed by naturally occurring microbes found in water. The resulting runoff is water soluble and is safe for disposal in drains, sewers, soil or open seas.

Always consult government and local authority guidelines before discharging into sewer and drainage systems or directly into water courses.

### Uses for Plutus SHEEN MAGIC®

Plutus Sheen Magic® is an effective solution for the removal of sheens resulting from:

- Fuel spills and traffic accident cleanup
- Storage tank and pipeline exterior surfaces including valves, manifolds and railings
- Manufacturing or fabrication processes or spills
- Oil and water separators
- Petroleum and crude oil fill racks
- Maintenance and repair of facility floors
- Parking or storage area runoff

Plutus Sheen Magic® is environmentally safe, cost and time effective for remediation of all hydrocarbon sheens. In the case of major spills Sheen Magic® can be safely disposed of in drains or sewers without danger to people, wildlife or the environment.

# SHEEN MAGIC® - Application Instructions

## General Hard Surface Clean Up

### Step 1

Before beginning any treatment process make sure all safety guidelines and procedures are in place. If in doubt check with safety representatives before proceeding. Plutus Environmental Solutions Ltd or its associated or subsidiary companies shall not be held liable or at risk for any safety violations or errors by the user. Always wear an appropriate mask and glasses when applying any spray solution.

### Step 2

Recover all standing hydrocarbons possible for disposal or recycling. Hydrocarbons often collect in depressions or spalled areas. These areas should be wiped with and absorbent pad rag or wipe before applying Sheen Magic®.

### Step 3

Apply Sheen Magic® with a sprayer.

### Step 4

Sheen Magic® will instantly break down and remove the sheen on application.

### Step 5

If an unacceptable amount of sheen remains, repeat steps 2-4 until satisfactory.

## Treatment of Hydrocarbon Sheens on Water

### Step 1

Before beginning any treatment process, make sure all safety guidelines and procedures are in place. If in doubt check before proceeding with safety officer. Plutus Environmental Solutions Ltd 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 possible hydrocarbons. Recoverable hydrocarbons should be boomed, wiped or vacuumed for recycling before application of Sheen Magic®. If large volume amounts can be removed for disposal or recycling then the volume of application of Sheen Magic® needed will be reduced.

### Step 3

Small sheens may be treated by using a hand sprayer. Larger sheens may require aerial application or spray delivery from boat or barge mounted delivery systems. Aerial delivery should at a speed that produces droplet shear as per nozzle manufacturer specifications.

### Step 4

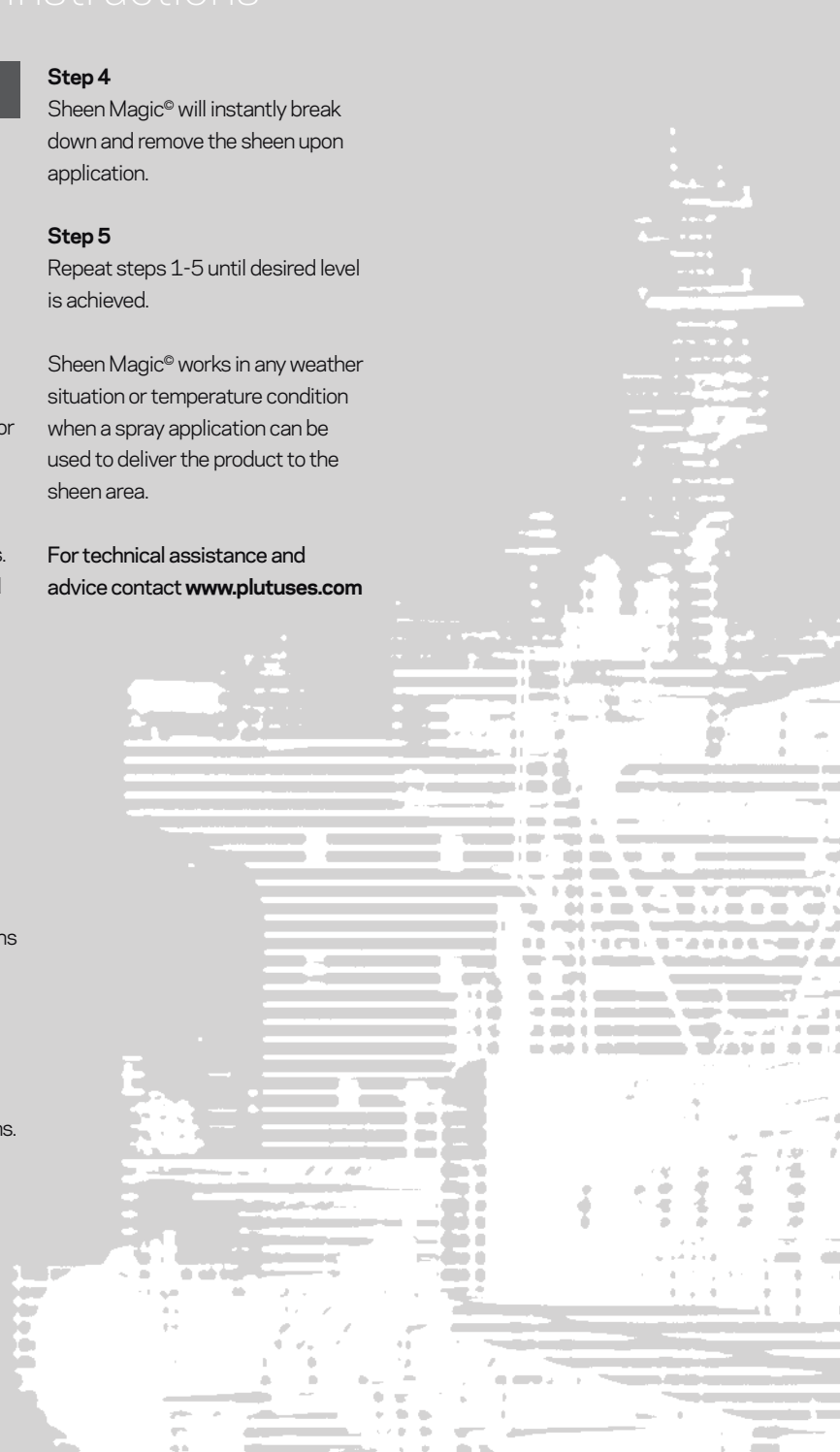
Sheen Magic® will instantly break down and remove the sheen upon application.

### Step 5

Repeat steps 1-5 until desired level is achieved.

Sheen Magic® works in any weather situation or temperature condition when a spray application can be used to deliver the product to the sheen area.

For technical assistance and advice contact [www.plutuses.com](http://www.plutuses.com)



# Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

## U.S. Department of Labor

Occupational Safety and Health Administration  
(Non-Mandatory Form) Form Approved OMB No. 1218-0072

Identity (as used on Label and List)

**SHEEN MAGIC<sup>®</sup> Hydrocarbon Sheen Remover**

Note: Blank spaces are not permitted. If any item is not applicable or no information is available, the space must be marked to indicate that.

### Section I - Manufacturer's Information

Manufacturer's Name

**Plutus Environmental Technologies, Inc.**

Emergency Telephone Number

**++1 (865) 453-0060**

Address (number, Street, City, State and Zip Code)

**807 Mize Lane**

**Sevierville, Tennessee 37862-3027**

**USA**

Telephone Number for Information

**++1 (865) 453-0060**

Date Prepared

**Updated 01 November 2006**

Signature of Preparer (optional)

### Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity, Common Name(s))

OSHA PEL

ACGIH TLV

Other Limits Recommended

% (optional)

**None; Proprietary blend of surfactants and organic solvents in aqueous solution.**

### Section III - Physical/Chemical Characteristics

| Boiling Point                  | Specific Gravity (H <sub>2</sub> O = 1) | Vapor Pressure (mm Hg) | Melting Point | Vapor Density (Air = 1) | Evaporation Rate (Butyl Acetate = 1) | Solubility in Water | Appearance and Odour                            |
|--------------------------------|---|------------------------|---------------|-------------------------|--------------------------------------|---------------------|---|
| <b>H<sub>2</sub>O = 100 °C</b> | <b>1.01 - 1.02</b>                      | <b>N/A</b>             | <b>N/A</b>    | <b>N/A</b>              | <b>N/A</b>                           | <b>Infinite</b>     | <b>Clear colour; none to light citrus odour</b> |

### Section IV - Fire and Explosion Hazard Data

| Flash Point Method Used | Flammable Limits | LEL        | UEL        | Extinguishing Media | Special Fire Fighting Procedures | Unusual Fire & Explosion Hazards |
|-------------------------|------------------|------------|------------|---------------------|----------------------------------|----------------------------------|
| <b>None</b>             | <b>N/A</b>       | <b>N/A</b> | <b>N/A</b> | <b>N/A</b>          | <b>None</b>                      | <b>None known</b>                |

| Section V - Reactivity Data   |                                      |  |   |  |  |  |  |                        |                            |
|---|--------------------------------------|--|---|--|--|--|--|------------------------|----------------------------|
| Stability   | Unstable                             | Conditions to Avoid  |   |  |  |  |  |                        |                            |
|   | Stable X                             | None known, unless water is evaporated; if all aqueous phase is evaporated, components will completely volatilize. |   |  |  |  |  |                        |                            |
| Incompatibility (materials to Avoid)<br>Hydrocarbon-based substances;<br>aluminium; silicone  |                                      | Hazardous Decomposition or Byproducts<br>None known  |   |  | Hazardous Polymerisation   |  | May Occur<br>Will Not Occur X  |                        | Conditions to Avoid<br>N/A |
| Section VI - Health Hazard Data   |                                      |  |   |  |  |  |  |                        |                            |
| Route(s) of Entry<br>No   | Inhalation?<br>No                    | Skin?<br>No  | Ingestion?<br>May cause diarrhoea   | Health Hazards (Acute & Chronic)<br>May cause diarrhoea if volume ingested |  | Carcinogenicity<br>No                                | NTP?<br>No   | IARC Monographs?<br>No | OSHA Regulated?<br>No      |
| Signs and Symptoms of Exposure<br>Hands may redden if immersed for several hours  |                                      | Medical Conditions Generally Aggravated by Exposure<br>None Known  |   |  | Emergency & First Aid Procedures<br>If ingested, drink quantities of fresh water; DO NOT INDUCE VOMITING. Flush eyes with water or saline solution. Call physician if irritation persists. |  |  |                        |                            |
| Section VII - Precautions for Safe Handling and Use   |                                      |  |   |  |  |  |  |                        |                            |
| Steps to be taken in case Material is Released or spilled<br>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<br>May be safely poured down the drain.   |  | Precautions to be taken in Handling and Storing<br>None Known  |  | Other Precautions<br>Personal Protective Equipment (PPE) is not required. Safety goggles are suggested when using this product or any other chemical product. Dust mask may be worn when wind or spray conditions warrant. |                        |                            |
| Section VIII - Control Measures   |                                      |  |   |  |  |  |  |                        |                            |
| Respiratory Protection (Specify Type)<br>N/A; contains no VOCs  |                                      | Ventilation  | Local Exhaust<br>None Needed  |  | Special<br>None Needed   |  |  |                        |                            |
|   |                                      |  | Mechanical (General)<br>N/A   |  | Other<br>None Needed   |  |  |                        |                            |
| Protective Gloves<br>Not required   | Eye Protection<br>Suggested with use |  | Other Protective Clothing or Equipment<br>As needed or required by work site policies and procedures. |  |  | Work/Hygienic Practices<br>Avoid excessive exposure. |  |                        |                            |

## Products available from Plutus Environmental Solutions



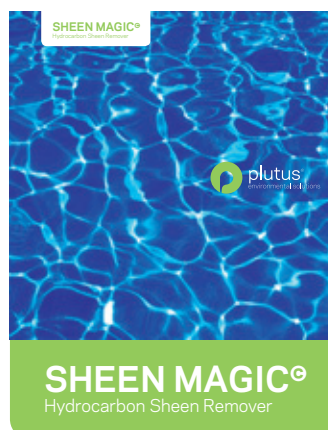
PRA<sup>®</sup> Petroleum Remediation Additive is a non-flammable and non-toxic petroleum and paraffin removal treatment for use in all phases of the oil industry.

It removes wax accumulation downhole, targets paraffin and asphaltene accumulations, returns paraffin to the oil phase of the crude, kills algae and mould and all without lowering the btu quality of the fuel.



E-SAFE<sup>®</sup> Environmentally-Safe Cleaner is the best product for hydrocarbon removal available. It is effective in all areas of remediation.

It is used for the remediation of soil contaminated by fuel spills, petrol, gasoline or diesel by breaking down the hydrocarbon into smaller compounds which become nutrients or food for naturally occurring bacteria in the soil.



SHEEN MAGIC<sup>®</sup> rapidly and safely restores streams and lakes to pre-contamination quality. The formulation removes oil sheens normally associated with hydrocarbon spills, breaks down the hydrocarbon into smaller compounds which become nutrients or food for naturally occurring bacteria in the water.



BILGE-BRITE<sup>®</sup> is an environmentally safe solution for remediating hydrocarbon contamination of bilge in maritime and large leisure craft.

It is effective in all areas of hydrocarbon remediation and is used for the treatment of bilge contaminated from hydrocarbon drips, leaks or spills of lubricants, bunker oil, gasoline, petrol or diesel.



OWS® speeds the breakout of oil from water in separator units, retards foaming and odour and decreases sludge build-up for reduced maintenance. Hydrostatic bonding of the oil and water mix in separator units retards oil breakout - OWS reduces this bonding, increases oil breakout and results in drier oil and clean water.



XTREME® Parts Wash is designed to remove heavy grease and oil from industrial coatings, fabrication processes, paint line residues and light rust.

It increases biological activity in industrial waste streams and kills bacteria, fungus and microbes on treated parts and in equipment systems.



For more information on any of the products featured here and for an individual brochure download from [www.plutuses.com](http://www.plutuses.com), email: [info@plutuses.com](mailto:info@plutuses.com) or call Plutus Environmental Solutions on **(+44) 01522 694445**.



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