

XTREME[®]

Parts Wash



plutus[®]
environmental solutions



XTREME Parts Wash® is a 0-0-0 Hazmat Rated parts cleaning solution that is designed to remove heavy grease and oil, industrial coatings, Cosmoline, fabrication process and paint line residues and light rust.

XTREME® will actually increase biological activity in industrial waste streams, but will kill bacteria, fungus and microbes on treated parts and in equipment systems.





Plutus Xtreme[®] Overview

- Removes heavy grease and oil, industrial coatings, Cosmoline, fabrication process and paint line residues, and light rust.
- XTREME[®] is the excellent choice for use in industrial hot wash and vapor blast systems.
- XTREME[®] radically reduces part reject rates and weld failures.
- XTREME[®] is the best stainless cleaner available, and does not contain abrasives, hydrocarbons or butyl and has no flashpoint.

XTREME[®] is formulated to EPA Guidelines and to be California Code 65 safe.

XTREME[®] is a concentrated formulation that can be mixed on site to provide the correct strength or dilution for your particular situation.

One gallon of XTREME[®] added to the normal water volume in hot cleaning systems would out perform dry additives at a 5-10 cost saving ratio.

The hard, baked on buildup will begin to emulsify immediately on contact with the XTREME[®].

The parts will be cleaner. The system operating temperature may be significantly lowered.

Nozzles, spray arms and supply lines stay clean and open. Oils and greases are broken down so there are less associated disposal costs and maintenance downtime problems.

Skin rash and irritation in most skin types is eliminated. Breathing concerns and clothing damage are eliminated. No more chemical burns and health hazards.

XTREME[®] may be used full strength or diluted depending upon the residue or contamination being removed.

Applied via a spray bottle, XTREME[®] is the ideal bench top cleaner for hand cleaning parts, tools and workspaces. XTREME[®] is the best stainless cleaner available, and does not contain abrasives, butyl, hydrocarbons, and has no flashpoint.



XTREME® is used in all size and type parts washers, hot or cold. Dilution is discretionary depending on the nature of the surface being cleaned and the contamination that is being removed.

XTREME® is safe for all industrial materials that are normally used in fabrication operations.

XTREME® does not damage decals, hoses, and finishes, gaskets, lenses, seals or equipment.



One gallon of XTREME[®] added to the normal water volume in hot cleaning systems would out perform dry additives at a 5-10 cost saving ratio.

XTREME[®] Parts Wash should not be used on Silicone or Aluminium Parts or Equipment.

XTREME[®] should be used in vapour blast systems in accordance with system manufacturer's instructions. To maintain the effectiveness of XTREME[®], oil accumulations on the surface of the washer reservoir should be periodically removed. This will extend the effective life of the product.



Xtreme® - Usage Guidelines

This concentrated, multipurpose and unique cleaner of hydrocarbon contaminants far exceeds the efficiency of usual solvents and mineral spirits used in the repair and fabrication industry.

- Plutus XTREME® neutralizes hydrocarbon based oils and greases by molecular conversion into harmless, non-toxic compounds. Those oils and greases are converted to a “soap like” compound which in turn cleans parts, tool and components and drain lines. The resultant runoff is water soluble and is safe for disposal in sanitary sewers.
- Plutus XTREME® a corrosion inhibitor and a microbicide to retard fungus growth and rust formation on cleaned items.

Uses for Plutus XTREME®

Plutus XTREME® is extremely effective for use in both cold, hot or vapor washer systems, especially for cleaning:

- Tools
- Valves, manifolds and fittings
- Brake and transmission components
- Engine blocks and parts

Plutus XTREME® is cost and time effective in all parts washer applications.

Xtreme® - Application Instructions

General Usage

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

Washer systems that have been used with other cleaners should be thoroughly flushed with XTREME® to remove any toxic residuals that may remain from the previous cleaner.

Step 3

Use XTREME® full strength in cold water units that are used for hard to remove heavy greases or industrial coatings. XTREME® may be diluted up to 1:10 with water for light oils and general cleaning.

Step 4

Scrub with brush if required to remove baked-on deposits.

Step 5

Circulate until part or tool is satisfactorily cleaned.

Hot Water Systems

Step 1

As General Usage (left).

Step 2

As General Usage (left).

Step 3

XTREME® may be used full strength or diluted up to 1:20 with water in hot water units. Refer to washer manufacturer's recommendation for general usage.

Step 4

a. Paint or industrial coatings such as Cosmoline can usually be removed with a 1:5-10 XTREME® dilution.

b. Extremely heavy or baked on deposits like those found on manifolds or engine blocks can usually be removed with a 1:5 XTREME® dilution.

c. Light oils, grit and grime, list rust or paint overspray can normally be removed with a 1:10 or a 1:20 XTREME® dilution.

Vapor Systems

Step 1

As General Usage (left).

Step 2

As General Usage (left).

Step 3

Refer to system manufacturer's recommendation for general usage.

Note

XTREME® should be tested on aluminium alloys before general usage with these materials. Some aluminium alloys are not affected, however, others may exhibit a surface oxidation. Eye protection should be used when pouring, spraying or transferring XTREME® or any liquid chemical solution.

Spill Control

Step 1

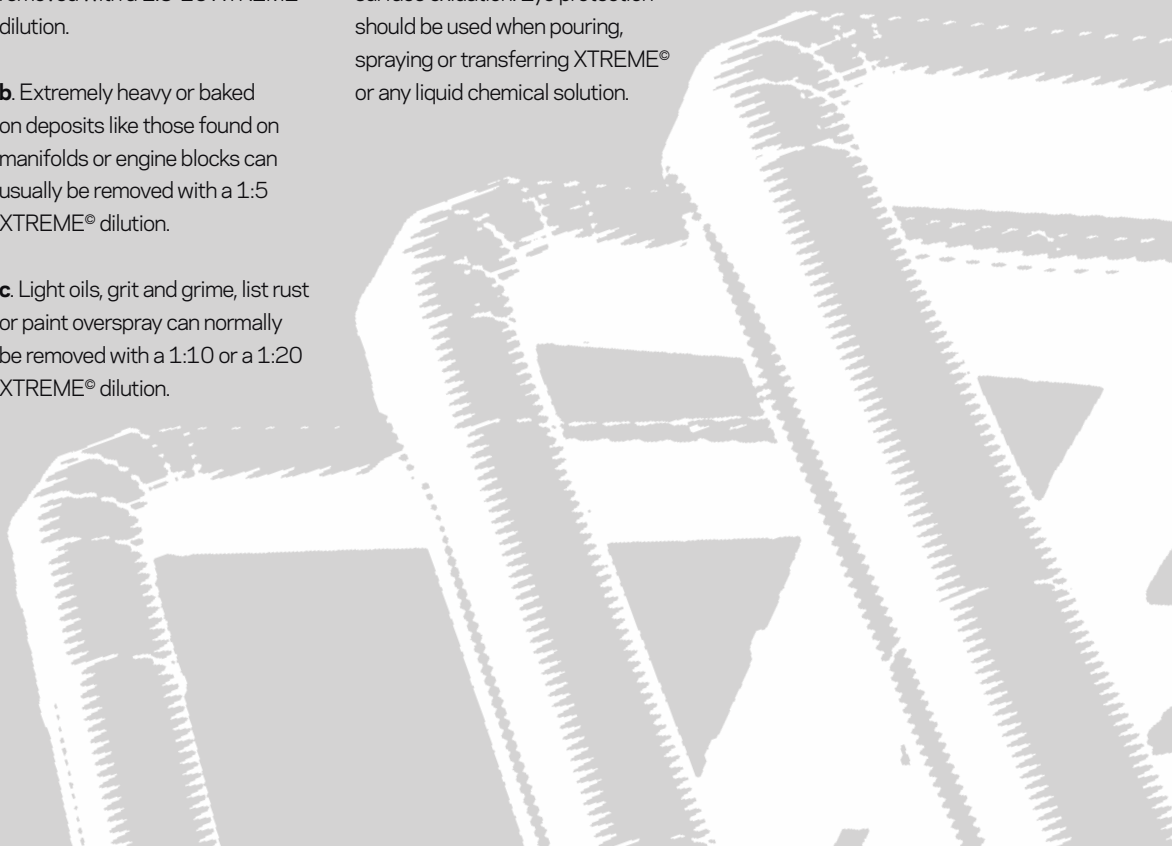
In case of a major spill wipe away all XTREME® possible with a universal (gray) absorbent sheet.

Step 2

Remaining XTREME® may safely be flushed down floor drain into collection system or sewer. No harm will come to the environment.

Note

Always check with Safety Officer or Local Authority before releasing any unusual discharge into the sanitary sewer or storm sewer system.



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)

XTREME[®] Parts Wash

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 September 2004

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; contains 5 ppm Orco Reactive Red 13B for identification.

Section III - Physical/Chemical Characteristics

Boiling Point	Specific Gravity (H ₂ O = 1)	Vapour Pressure (mm Hg)	Melting Point	Vapour Density (Air = 1)	Evaporation Rate (Butyl Acetate = 1)	Solubility in Water	Appearance and Odour
H₂O = 100°C	1.04 - 1.29	N/A	N/A	N/A	N/A	Infinite	Clear red colour; none to light citrus odour

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
None	N/A	N/A	N/A	N/A	None	None known

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) Hydrocarbon-based substances; aluminium; silicone			Hazardous Decomposition or Byproducts None known		Hazardous Polymerisation	May Occur		Conditions to Avoid	
						Will Not Occur X		N/A	
Section VI - Health Hazard Data									
Route(s) of Entry	Inhalation?	Skin?	Ingestion?	Health Hazards (Acute & Chronic)		Carcinogenicity	NTP?	IARC Monographs?	OSHA Regulated?
No	No	No	May cause diarrhoea	May cause diarrhoea if volume ingested		No	No	No	No
Signs and 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.				
Section VII - Precautions for Safe Handling and 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 be safely poured down the drain.		Precautions to be taken in Handling and Storing None Known		Other Precautions Personal Protective Equipment (PPE) is not required. Safety goggles are suggested when using this product or any other chemical product.		
Section VIII - Control Measures									
Respiratory Protection (Specify Type) N/A; contains no VOCs		Ventilation	Local Exhaust	Special					
			None Needed	None Needed					
			Mechanical (General)	Other					
			N/A	None Needed					
Protective Gloves	Eye Protection		Other Protective Clothing or Equipment			Work/Hygienic Practices			
Not required	Suggested with use		As needed or required by work site policies and procedures.			Avoid excessive exposure.			

Products available from Plutus Environmental Solutions



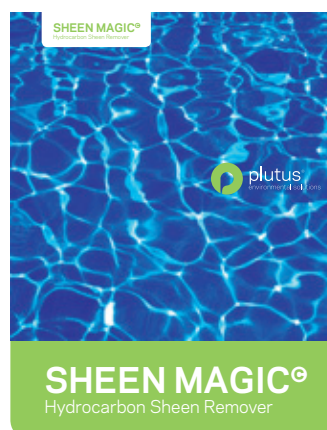
PRA[®] Petroleum Remediation Additive is a non-flammable and non-toxic petroleum and paraffin removal treatment for use in all phases of the oil industry.

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[®] 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[®] 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[®] 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, email: info@plutuses.com or call Plutus Environmental Solutions on **(+44) 01522 694445**.



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