



ENVIRONMENTAL TECHNOLOGY

# Product Information

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## RB DEGREASER/CLEANER

**RB DEGREASER** is a high concentration, all natural, heavy duty, powerful degreaser/cleaner which contains no solvents. The product is **completely biodegradable** and quickly lifts oil, grease and other soils from metal and other hard or soft surfaces. The environmental formulation allows for easy treatment of spent solution. Simply skim oil/grease and discharge. Elimination of liability. It works like magic! A non-citrus product.

### APPLICATION:

Aqueous based formula (solvent replacement) for degreasing/stripping/cleaning metals and other surfaces such as plastics, rubber, tile and cement. Rapid removal of oil, grease and soils, performs well in hard or soft water. It will not harm metals including aluminum, zinc, copper, steel, and brass. Surfaces rinse squeaky clean of any film or residue. May be used in parts washers and vapor degreasing units.

### FEATURES:

Non-toxic, biodegradable, no petroleum additives, no solvents, no halogens, no butyl, not flammable – exceeds all OSHA, EPA and California standards. Authorized for use in federally inspected meat and poultry plants. **Safe, easy to use, works better and costs less. No atmospheric ozone destruction.**

### PERFORMANCE:

Works better than terpene solvents or mineral spirits. Fats, oils and grease rise to the surface for easy skimming and removal. May be used cold or heated up to 200°F. for improved speed. Normal dilution is 10 to 1. Rapid removal of surface residue such as adhesives, fluxes and carbon smut. Oils/Grease/Soils will stay emulsified with normal agitation. When agitation stops – complete separation within 1 hour. The Degreaser with a memory. No odor. **100% Performance Guarantee.**

### ENVIRONMENTAL:

Completely non-toxic and nonhazardous to workers and the environment. Rapidly biodegradable and compatible with sewer discharge requirements. Contains no caustic soda. **Replaces chlorinated solvents** and most cleaners. No VOC's, no borates, no chlorides, no photochemicals, no ammonia. No SARA reporting requirements. Zero discharge compatible.

**RB DEGREASER** contains a synergistic blend of state-of-the-art corrosion inhibitors to provide maximum metal protection while effectively cleaning. Surfaces are ready for paints, plating, or anodizing.

**RB DEGREASER** is **not corrosive** to metals **nor flammable** and should be diluted with water prior to use. A multi-purpose, multi-functional product. There is nothing else like it.

**IMPORTANT:** Must be diluted before use.

**Typical Dilutions:** (Agitation and heat will speed effectiveness)

- 10:1 Parts Washer - Soak Tank - Hand wipe or brush
- 20:1 Pressure Wash
- 50:1 Medium Duty Maintenance Cleaning/Steam Cleaning

Also available in Trigger Spray Bottles and No Foam Formula.

# RB DEGREASER FACT SHEET

## APPLICATIONS:

- ❑ Cold tank cleaner in a soak operation 10:1
- ❑ Cleaning fuel oils from boilers 6:1
- ❑ Cleaning engine blocks, transmission parts 6:1
- ❑ Replaces mineral spirits in small parts washers 10:1
- ❑ Cleans machinery and production equipment 6:1

Carbon Removal 6:1  
Solidified Greases 5:1  
Gelled Oils 5:1  
Dip Tanks 10:1  
Tumblers 5:1  
Pressure Washers 20:1  
Steam Cleaners 50:1  
Floor Scrubbers 50:1  
Floors 50:1  
Stripping Floors 20:1  
Windows & Mirrors 200:1  
Spot Cleaning 6:1  
Tile & Grout 10:1  
Concrete 20:1  
Carpet Cleaning 50:1  
Drawing Compounds 6:1  
Vapor Degreasers 10:1

Varnish 5:1  
Hydraulic Fluids 5:1  
Laundry Additive 50:1  
Ultrasonic Cleaners 20:1  
Tools 5:1  
Electronics 10:1  
Soil Remediation 10:1  
Fiberglass & Stainless Steel 6:1  
Carwash/Vans, Trucks 50:1  
Leather 20:1  
Fabrics 20:1  
Wooden Furniture/Fixtures 20:1  
Manufacturing 6:1  
Maintenance 6:1  
Food Service 6:1  
Marine 6:1  
Parts Washers 10:1

- ❑ Removes gear greases and specialty lubricants 5:1
- ❑ Removes oil/grease from fabrics - Spray and wash 6:1
- ❑ Cleaning drains and grease traps 5:1
- ❑ Cleaning electrostatic precipitators 5:1
- ❑ Chemical/radioactive decontamination 6:1

Fleet Maintenance 6:1  
Aerospace 6:1  
Flux Removal 10:1  
Grease Filters 5:1  
Smoke, Soot, Diesel Fuel 6:1  
Inks, Graffiti 5:1  
Cutting Oils 5:1  
Asphalt, Tar 5:1  
Latex Adhesives/Paints 5:1  
Formica, Plastics 6:1  
Combination Cleaners 10:1  
General Maintenance 100:1  
P.C. Board Cleaning 10:1  
Bilgewater Emulsifier/Cleaner 5:1  
Foam Machines 5:1  
Glass 100:1  
Jewelry 20:1

## PRODUCT COMPARISON:

**COST:** Lowest cost of all alternatives, less than \$1.00 a gallon at normal use strength.

**SAFETY:** Safe for workers, the environment, and food handling. Meets USDA/EPA/OSHA and International Standards.

**EFFECTIVENESS:** Better than Naptha, Mineral Spirits, Kerosene, Terpene Solvents, 1,1,1-Trichloroethane, Hydrocarbons, Stoddard Solvents, Citrus Type Cleaners, **Replaces Chlorinated Solvents**, Perchloroethylene, Methylene Chloride.

**RESIDUE:** None, squeaky clean.

**COMPATIBILITY:** With all metals and other hard and soft surfaces including plastics/rubber, elastomers.

**OIL SEPARATION:** Floats to surface within one hour for easy removal when agitation stops.

**SPENT DEGREASER:** Easy separation of oils and soils, then acceptable for direct discharge.

**CONCENTRATE:** A water activated degreaser - dilutions from 5:1 to 100:1.

**RUST:** Inhibited.

**CORROSION:** Contains proprietary organic and inorganic inhibitors.

**ENVIRONMENT:** Completely Biodegradable. No VOC's. No photochemically active components.

**SARA REPORTING:** None.

**ODOR:** None - no odor.

**FLAMMABILITY:** Not flammable or combustible, lower insurance costs, greater safety.

**HAZARDS:** No hazardous ingredients, no solvents, no halogens, no hydrocarbons, non-toxic, no poisons, no CFC's.

**pH:** pH of typical dilution is  $\approx 11.5$ .

**LIABILITY:** No solvents, no liability.

**COMPATIBILITY:** Surface rinses clean - ready for painting, plating or packaging. Ecologically pure.

**TEMPERATURE:** May be used cold or heated for faster action. Vapor Degreasers/Soak Tanks may be easily converted.

**APPLICATIONS:** A multi-purpose, multi-function concentrated liquid that directly replaces numerous solvents throughout a facility. Degreases, cleans and brightens.

**DILUTIONS:** 10:1 Parts Washer - Soak Tank  
6:1 Spray On-Wipe Off  
20:1 Pressure Wash  
50:1 Medium Duty Maintenance Cleaning/Steam Cleaning  
100:1 General Cleaning

**CONVERSION:** Easy conversion of vapor degreasers, soak tanks, parts washers, ultrasonics.

**NON-TOXIC, SAFE TO USE, NO DISPOSAL PROBLEM, EFFECTIVE AND LOW COST. WORKS IN HARD OR SOFT WATER. SATISFACTION GUARANTEED.**

Order now from your local stocking Distributor or call Factory.

ETUS, Inc.  
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# RB DEGREASER — USAGE TIPS

## IN TANKS OR OPEN TOP DRUMS:

- ❑ Before adding an initial charge of **RB DEGREASER**, be sure tank is clean and free of all hydrocarbon deposits and sludge.
- ❑ **RB DEGREASER** must be kept agitated to keep the oil and grease emulsified. To avoid foaming, subsurface agitation is required. A small submersible pump, 1/4 - 1/2 HP, is adequate. Do not use air agitation.
- ❑ **RB DEGREASER** is 10 times more effective when heated to 140° F than at ambient temperature. A simple immersion heater can be used to heat the degreaser.
- ❑ A 7-Day timer will provide automatic start-up and shut-down of the pump and heater.
- ❑ Use of a rack or basket to hold parts allows for easy tank immersion.
- ❑ After degreasing, follow with a clean water rinse – either a spray rinse over the tank or in a separate tank.
- ❑ After degreasing and rinsing, parts can be air dried or dried with an air blower.
- ❑ When agitation of the solution is discontinued, the oil and grease will float to the surface for easy removal by means of a built in skimmer or by floating oil absorbent pads or socks in the tank.
- ❑ To extend the useful life of **RB DEGREASER**, cover the tank or drum at night and on weekends.
- ❑ To make up for evaporation, use the water from a dip rinse tank or allow water from the spray rinse above the tank to drain into the tank. Installation of a simple water float valve will maintain the desired tank level.
- ❑ To automatically maintain degreasing solution strength, a pH control system can be utilized. The pH of the initial working solution is used as the set point. The pH control system will maintain the set point pH by adding **RB DEGREASER** concentrate as required. Contact your local Environmental Technology distributor or the factory for more information on this system.
- ❑ Short-term protection against rust and corrosion is provided by inhibitors in the **RB DEGREASER**. Longer protection can be obtained by dipping the parts in **RUST PROOF**.

## DILUTION:

**RB DEGREASER** is water activated and requires dilution with water to do its job. Dilute at least 5 to 1 with water.

## PRODUCT LIFE:

**RB DEGREASER** will last a long time with filtration and oil/grease skimming. To make up for evaporation add more **RB DEGREASER**.

## FOAMING:

Air entrapment will cause foaming. Do not use air agitation or surface spray. For tank or drum units, use a submersible pump to agitate the solution. Do not use an antifoam as it will deactivate the product. In some applications – a small amount of **NOFOAM** antifoam added to the working solution will eliminate foaming – or use the **NOFOAM** version.

## IN VAPOR DEGREASERS:

- ❑ In addition to the above suggestions, disconnect the cooling system of the vapor degreaser.
- ❑ Add a subsurface agitation pump.
- ❑ Maintain heater temperature at 140°F to 170°F.
- ❑ Disconnect the spray mechanism as it will cause foaming.
- ❑ Before each start up, skim off oil and grease from solution surface.
- ❑ Fill the converted unit to allow for immersion of the parts.

## IN ULTRASONIC CLEANERS:

- ❑ Ultrasonic cleaning with **RB DEGREASER** is improved when the unit is equipped with a heater.

## IN PRESSURE WASHERS:

- ❑ Suggested dilution of **RB DEGREASER** concentrate is 20:1. Set the metering valve on the pressure washer in the mid-range position and adjust as required to achieve maximum results.

## IN PARTS WASHERS:

- ❑ See the suggestions listed under Tanks and Drums above.
- ❑ For those now using “free” parts washers from cleaner manufacturers, the lower cost of using **RB DEGREASER** will quickly offset the price of purchasing your own washer.
- ❑ Build your own heated unit with an open top 55 gallon steel drum. Add a small submersible pump and a flexible drum heater with thermostat. Add five gallons of **RB DEGREASER** concentrate plus 25 gallons water and you’re in business.

## FOR FREON REPLACEMENT:

- ❑ Use ultrasonic cleaner with heater and charge with diluted **RB DEGREASER** (10:1 to 40:1). Maintain degreaser temperature from 140° F to 170° F.
- ❑ Follow degreasing operation with a fresh DI water rinse – either a dip tank or spray.
- ❑ Use a second ultrasonic cleaner (heated) charged with deionized water.
- ❑ Use a hot air blower to dry surface of the cleaned item(s).

## GENERAL USAGE TIPS:

### HEATING:

**RB DEGREASER** is 10 times more effective when heated to 140° F than at ambient temperature. It can be heated to 200° F with no adverse effect on its capabilities.

### DISPOSAL:

**RB DEGREASER** is 100% biodegradable and compatible with sewer discharge requirements.

# ENVIRONMENTAL DATA

**RB DEGREASER** is completely non-toxic and non-hazardous to workers and the environment. It is rapidly biodegradable and compatible with sewer discharge requirements.

**RCRA HAZARD CLASS:** (If discarded) Non-Hazardous.

**EPA PRIORITY POLLUTANTS:** None.

**DOT HAZARD CLASSIFICATION:** Non-Hazardous.

**ORAL TOXICITY (LD 50):** > 6.0 gm/kg (Rating OH, No Known Hazard – Materials having no known effect). Ref. 16 CFR 1500.3.

**DOT CORROSIVITY SKIN TEST:** Non-corrosive and non-irritating to skin. (Rating OH, No Known Hazard – Materials having no known effect). Ref. 49 CFR 173.240.

**EYE IRRITATION:** If not washed out of eyes – mild to moderate irritant (Rating 2H).

If eyes flushed with water – very slightly irritating to non-irritating (Rating OH-1 H). Ref. 16 CFR 1500.42.

**INHALATION TOXICITY (LC-50):** As a spray – essentially non-irritating (Rating OH, No Known Hazard – Materials having no known effect).

For further information, please refer to Material Safety Data Sheet.

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## PRO-ENVIRONMENTAL METAL TREATMENT PRODUCT SUMMARY

**RB DEGREASER** is a high concentration, all natural, heavy duty, degreaser/cleaner which contains no solvents. The product is **completely biodegradable** and quickly lifts oil, grease and other soils from metal and other hard or soft surfaces. The environmental formulation allows for easy treatment of spent solution. Simply skim oil/grease and discharge. Elimination of liability. No VOC's, no photochemically active components.

**RUST REMOVER** is an inhibited mild acid-based rust scale and tarnish remover for metals. **RUST REMOVER** liquid is odorless, contains no solvents and will not produce any harmful fumes. It contains a proprietary blend of surface active agents for maximum efficiency.

**RUST PROOF** is a liquid organic, water soluble, rust and corrosion inhibitor for ferrous and non-ferrous metals. The premium duty product is not toxic or hazardous and will provide complete metal protection after degreasing and de-oiling operations. The protective, non-hydrocarbon film will last up to four weeks or longer depending upon conditions.

**BUFF CLEAN** is a specially formulated aqueous-based cleaner for removing metallic oxide buffing compounds. The cleaner is heat activated and contains no butyl or chlorinated solvents. After treatment the part may be easily rinsed. **BUFF CLEAN** leaves the surface squeaky clean.

**NOFOAM** is an octal alcohol antifoam and foam suppressant that may be used to control foaming when using **RB DEGREASER** or other surface active products. **NOFOAM** contains no oils or silicones and will not leave a film.

**RB SOAK CLEANER** is a highly concentrated, all natural, low cost premium duty liquid soak cleaner which quickly lifts oils, grease and other soils from metal, plastic and other surfaces. An exceptionally good cleaner with superior rinsing characteristics. **RB SOAK CLEANER** can be used for soak cleaning in barrel or rack tank operations. The pro-environmental formulation is completely biodegradable and allows for easy treatment of spent solution.

Samples and Application Data are available from local stocking distributors or direct from the factory.