



**SmartWasher® Low Foam  
Industrial Cleaning Solution**

**I. Product Description**

CRC's **SmartWasher® Low Foam Industrial Cleaning Solution** is a pH neutral mixture of emulsifiers and low foam surfactants containing little volatile organic compounds (VOCs) or solvents which is blended in liquid form to produce a biodegradable, low foam, non-toxic, non-caustic, non-flammable, non-hazardous oil dispersant and degreaser. The Solution works in conjunction with the Parts Washing System when warmed to 105° by the SmartWasher® units. The maximum strength, low odor, Low Foam Industrial Cleaning Solution handles the removal of tough industrial soils as well as heavy grease, oil, carbon, sludge, dust and varnishes safely from all types of substrates.

The SmartWasher® System is a timely alternative to conventional petroleum-based solvent parts washers. SmartWasher® is a self-contained, self-cleaning system that is completely safe, non-toxic and generates no hazardous waste - without compromising cleaning ability. SmartWasher® uses the process of bioremediation - the accelerated breakdown of organic compounds such as grease, grime, varnish, oil, carbon and other heavy industrial soils through the use of microbes. The microbes, suspended in the Low Foam Industrial Cleaning Solution that re-circulates through the unit, literally eat their way through soils, converting them into harmless water and Carbon Dioxide (CO<sub>2</sub>). The solution remains clean and usable, unlike traditional solvent-based systems where the solution becomes dirty and less effective over time. Disposal becomes a non-issue, as hazardous waste streams are eliminated. This process is non-hazardous, non-caustic, non-flammable, and does away with the need for regulatory paperwork.

**II. Applications**

Recommended for parts cleaning in preventative maintenance and repair facilities, industrial manufacturing plants, automotive repair shops, metal fabricators, and anywhere that dirty, greasy, grimy parts need to be cleaned without regulatory or disposal issues.

Type of Soils	Low Foam Industrial Cleaning Ability
Motor Oil	Excellent
Bearing Grease	Excellent
Automotive Grease	Excellent
Impacted Grease	Excellent
Asphalt	Good
Creosote	Excellent
Resin Products	Excellent
Hydraulic/Transmission Fluid	Excellent

Type of Soils	Low Foam Industrial Cleaning Ability
Fifth Wheel Grease	Excellent
Crude Oil	Excellent
Solder & Flux	Excellent
Automotive Varnish	Good
Burned-on Carbon	Good
Cutting Oils	Good
Ink/Toner	Good
Animal Fat	Excellent

**III. Features & Benefits**

- **NSF A1 Registered.**
- **Industrial Strength. Low Foam.**
- **Low Odor.** Creates a more user-friendly working environment.
- **Excellent Cleaning Ability.** Cleaning Solution contains wetting agents that literally lift soils off of parts to be rinsed away.
- **Reduces the Risk of Hazardous Waste Disposal.** SmartWasher® System generates no hazardous waste - eliminating reporting, disposal and regulatory paperwork in most cases.
- **Non-Corrosive.** Will not scratch or score equipment finish. Contains flash rust inhibitors.
- **Non-Flammable.** Aqueous formulation reduces risk of fire and provides increased user safety.
- **Neutral pH.** Non-acidic and Non-caustic.
- **Contains Low VOCs.** Minimal volatile organic compounds, which cause ground smog.
- **No Class I or II Ozone Depleting Chemicals.** Provides an alternative to 1,1,1-Trichloroethane products while complying with the EPA regulations on the use of ozone depleting chemicals.
- Available in **5 gallon pails** for use in the SmartWasher® Parts Cleaning System.

## IV. Physical Properties

Flash Point (TCC)	None	Boiling Point	210°F
Odor	Low, Pleasant	Freezing Point	ND
Appearance	Clear to light yellow liquid	Solubility	Soluble in H <sub>2</sub> O
Vapor Density	Not Determined	% Volatile	90%
VOC Content (Fed)	<25	Specific Gravity	1.021
Sara Title III, Sect. 313 Chemicals	None	pH	7.3
Prop 65	None	Vapor Pressure	Not Determined

## V. Specifications and Approvals

- NSF Registration #143961, Category Code A1 for use in meat and poultry plants.
- When used as a system, **SmartWasher®** meets requirements for a Clean Air Solvent Certificate from the South Coast Air Quality Management District (SCAQMD).

## VI. Performance Characteristics

Filtration*	user changeable without hand tools or special equipment
	user disposable
	microbe impregnated
	filtration to 50 microns
Microbe Treatment*	environmental-shock resistant
	preserved for 18 month minimum shelf life
	suspended ion filter with water-soluble material for release at a predictable rate
	Nonpathogenic

\*Filtration and microbial properties indicative of total system use

## VII. Directions

- Read the Operating Manual included with each SmartWasher® unit for installation information.
- Initial start-up requires 25 gallons of fluid and one filter in addition to the unit.
- Fluid replenishment is one 5-gallon pail every 6 to 8 weeks or as needed; filter replacement is one per month.
- Once installed, the SmartWasher® should be left plugged in and turned on, even when not washing parts. In the Standby/Ready mode the fluid will be kept at the recommended operating temperature. If the temperature falls below the recommended minimum, the system will still clean, but the remediation of the hydrocarbons by the microbe colony will slow down. The microbes will reactivate when the fluid temperature reaches the appropriate level.

## VIII. Package Description

Part Number	Container Size
14159	5 Gallon Pail

## IX. Disposal

Disposal requirements vary by state and local jurisdiction. All used and unused product should be disposed of in conformance with local, state and federal regulations.

## X. Special Use Warnings

### General

Avoid direct skin contact or inhalation. Allergic reactions to industrial products may occur in some individuals. It is recommended that safety glasses and rubber gloves be worn when handling industrial use products.

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