

Lococlean™

**Strong Enough to Clean a Locomotive or Degrease an Engine
Highly Effective Road Film and Soot Remover
Industrial Cleaner**

About our Company

Additive Technologies' industrial cleaning products are based on leading-edge technology developed in our laboratories. Our cleaning products are based on an effective proprietary mixture of non-hazardous surfactants and have a low level of aggressiveness to human skin, contain no excess caustics or acids, no solvents or VOCs, and are not subject to regulation by the DOT, EPA, SARA, or CERCLA.

Although the products are friendly to people, construction materials and the environment, they are tough on dirt and oil. Their superior effectiveness as cleaners is due in large part to their impressive versatility. The cleaners will remove both oil-soluble and water-soluble soils, including organic and inorganic matter, oil, grease, grime, soot, and exhaust stains, road film, and much more.

The **Additive Technologies'** formulations were developed as heavy-duty, but non-toxic, cleaners for the railroad industry. Locomotives are very difficult to clean and the railroads had not found a product that was environmentally safe, and would satisfactorily clean using brushless locomotive washing facilities or in hand washing operations.

Further product testing indicated that **Additive Technologies'** would make an outstanding general purpose cleaner and degreaser. All of the products were tested on garage and warehouse floors, automobile engines, trucks, exhaust stacks, shower stalls, carpets, ovens, stoves, clothing, and many other applications. The results indicated that our non-hazardous products did a much better job than leading brands on the market.

EFFECTIVE

LOCOCLEAN is our most powerful heavy-duty cleaner and degreaser. It removes oil and grease rapidly and thoroughly like **CLEANSAFE** and **CLEANSAFE C3**. The run-off from cleaning with Lococlean also self-demulsifies when left relatively undisturbed as in a water/oil separator or waste water treatment plant. Like **CLEANSAFE C3**, **LOCOCLEAN** specifically targets road film, but contains ingredients to remove more types of road film. **LOCOCLEAN** also targets removal of soot from locomotive and truck exhausts. **LOCOCLEAN** is an outstanding product for "touchless" automatic locomotive washing facilities, heavy equipment cleaning, parts washing, concrete floor cleaning and most tough cleaning jobs.

SAFE

LOCOCLEAN contains no volatile organic compounds, so it has practically no odor, and is safe to use indoors or outside. **LOCOCLEAN** is an alkaline cleaner, but its pH is within the non-hazardous range as defined by DOT and OSHA. **LOCOCLEAN** is biodegradable and is not DOT regulated.

LOCOCLEAN PRODUCT FEATURES:

- **LOCOCLEAN** is fast acting and penetrating.
- **LOCOCLEAN** rapidly dissolves soot.
- **LOCOCLEAN** dissolves and removes road film, then leaves a temporary layer helping prevent corrosion and minimizing dirt re-build-up.
- **LOCOCLEAN** was developed for high capacity wash systems, but can be used for multiple cleaning purposes.
- **LOCOCLEAN** contains no DOT- or EPA-regulated ingredients.
- **LOCOCLEAN** contains no solvents, terpenes, d-limonene or acids.
- **LOCOCLEAN** emulsifies oil and grease efficiently, then demulsifies in a relatively short period of time if allowed to stand undisturbed.
- **LOCOCLEAN** is alkaline but its pH is within the non-hazardous range.

LOCOCLEAN PRODUCT BENEFITS:

- Environmentally friendly and biodegradable.
- Removes exhaust stains, soot and road film quickly without leaving shadow stains.
- Removes grease and oil with milder alkaline pH and without solvents, or any hazardous ingredients.
- Excellent at cleaning oil, grease, grime, mold, etc. from concrete floors or walls without any damage.
- Self-demulsifies in waste-water treatment facilities, reducing disposal and water treatment chemical costs.
- Works well in both touchless automatic wash systems and spray on/off applications with little or no hand labor.
- Contains no measurable volatile organic content (VOC), allowing it to be used safely indoors or outside.
- Can be used in hard or soft water areas, and is effective in either.



Additive Technologies, LLC

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ALL PRODUCTS MADE IN THE USA

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LOCOCLEAN™

LOCOCLEAN 100 is a **CONCENTRATE** and is often ordered where lower levels of dilution are required. This product is often used as is, for heavier uses like parts washing, pre-spotting, or as a vehicle engine degreaser. It is biodegradable and is not DOT regulated.

PRODUCT SPECIFICATIONS

Appearance	Clear or purple liquid
Odor	Mild soap
Flash Point	None
Freezing Point	28°F
Specific Gravity	1.025-1.035
pH	12.0-12.5
Stability	Stable

Product Code:	LC-100
Quantity options:	5 gal. Pail, 55 gal. Drum, 275 gal. Tote, 5,000 gal. Bulk
Quantity options (outside US):	19 L Pail, 205 L Drum, 1000 L Tote, Bulk tank truck (Canada only)
Dye:	Yes
Dye Options:	Purple or custom dye (by customer request)

LOCOCLEAN 200 is a **DOUBLE-STRENGTH CONCENTRATE** product developed for high-speed, high capacity automatic washing facilities where the dwell time is limited and freeze protection is required. It can also be used in regular washing facilities, car/bus washes and other uses outlined in the bulletin. It is biodegradable and is not DOT regulated.

LOCOCLEAN 200 has all the qualities of the regular LOCOCLEAN 100 concentrate. LOCOCLEAN 200 can be diluted with water to reach the normal LOCOCLEAN 100 strength, which is comparable to other full-strength, heavy-duty cleaners on the market. The regular concentrate is then diluted based on end-use (see next page). To dilute the LOCOCLEAN 200 simply add water in the amount of 1 times the volume of LOCOCLEAN 200 you are diluting to reach the full-strength LOCOCLEAN concentration (1 parts water : 1 part LOCOCLEAN 200).

PRODUCT SPECIFICATIONS

Appearance	Clear or purple liquid
Odor	Mild soap
Flash Point	None
Freezing Point	21°F
Specific Gravity	1.050-1.060
pH	12.0-12.5
Stability	Stable

Product Code:	LC-200
Quantity options:	5 gal. Pail, 55 gal. Drum, 275 gal. Tote, 5,000 gal. Bulk
Quantity options (outside US):	19 L Pail, 205 L Drum, 1000 L Tote, Bulk tank truck (Canada only)
Dye:	Yes
Dye Options:	Purple or custom dye (by customer request)

LOCOCLEAN 300 is a **SUPER-CONCENTRATED** product developed for high-dilution needs in high-speed, high capacity automatic washing facilities where the dwell time is limited and freeze protection is required. It can also be used in regular washing facilities, car/bus washes and other uses outlined in the bulletin as long as it is diluted accordingly. It is not for use full-strength. It is biodegradable and is not DOT regulated.

LOCOCLEAN 300 has all the qualities of the regular LOCOCLEAN 100 concentrate. LOCOCLEAN 300 can be diluted with water to reach the normal LOCOCLEAN 100 strength, which is comparable to other full-strength, heavy-duty cleaners on the market. The regular concentrate is then diluted based on end-use (see next page). To dilute the LOCOCLEAN 300 simply add water in the amount of 2 times the volume of LOCOCLEAN 300 you are diluting to reach the full-strength LOCOCLEAN concentration (2 parts water : 1 part LOCOCLEAN 300).

PRODUCT SPECIFICATIONS

Appearance	Clear or purple liquid
Odor	Mild soap
Flash Point	None
Freezing Point	14°F
Specific Gravity	1.085-1.095
pH	12.0-12.5
Stability	Stable

Product Code:	LC-300
Quantity options:	5 gal. Pail, 55 gal. Drum, 275 gal. Tote, 5,000 gal. Bulk
Quantity options (outside US):	19 L Pail, 205 L Drum, 1000 L Tote, Bulk tank truck (Canada only)
Dye:	Yes
Dye Options:	Purple or custom dye (by customer request)

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LOCOCLEAN™

LOCOCLEAN is a non-hazardous, environmentally friendly, personnel safe cleaning product that is very effective at tough cleaning jobs, which in the past, could only be handled by aggressive, hazardous products. LOCOCLEAN is particularly effective for removing road film and baked-on soot from in-service railroad locomotives, but it also removes the heavy grease, oil and grime found on any dirty locomotive. However, as for any cleaner, the equipment used and the cleaning technique employed are important elements of the overall procedure.

LOCOCLEAN 100 is a **CONCENTRATE** and is used for most application. For end use, it is diluted based on the requirement of the washing facility's soap application equipment. It can also be used full strength as required. Lococlean 100 is biodegradable and is not DOT regulated.

LOCOCLEAN 300 is a **SUPER-CONCENTRATED** product developed primarily where a higher concentration and greater dilution of water-to-cleanser is required. This product is often used as is for heavier uses like parts washing or pre-spotting. It can be used in locomotive washing facilities, car/bus washes and other uses outlined for Lococlean 100. It is biodegradable and is not DOT regulated. **LOCOCLEAN 300** has all the qualities of the regular LOCOCLEAN 100 concentrate. LOCOCLEAN 300 can be diluted with water to reach the normal LOCOCLEAN 100 strength, which is comparable to other full-strength, heavy-duty cleaners on the market.

Using LOCOCLEAN 100 and LOCOCLEAN 300

				
	Heavy Degreasing Greasy/oily factory equipment, oil delivery vehicles, grimy engines, construction equipment, very dirty shop areas, coal hoppers and locomotives.	General Degreasing Heavy Cleaning Parts washers, trucks/trailers, machinery, shop floors, shop walls, parts preparation, and construction equipment.	General Purpose Parts Cleaning Routine work, surface cleaning, floor cleaning, equipment cleaning, and preparation.	Janitorial Cleaning Household Cleaning Pressure Washing Appliances, toilets, counter tops, floors, general vehicle washing, bathrooms, and soap scum.
LOCOCLEAN 100:	Full Strength	3:1 to 10:1	10:1 to 30:1	20:1 to 40:1
LOCOCLEAN 300:	3:1	10:1 to 30:1	30:1 to 90:1	60:1 to 120:1

UNION PACIFIC RAILROAD



Additive Technologies' CLEANSAFE products have been used by the Union Pacific Railroad system-wide for over 9 years. **LOCOCLEAN** is the latest addition for their new high-capacity wash systems. Both CLEANSAFE and LOCOCLEAN are used for general cleaning and degreasing of shop floors, etc. Since the UPRR switched to the Additive Technologies' product line, there has not been a lost-time injury. Our products have successfully passed all the testing that the UPRR requires: VOC, waste-water, paint damage testing and more.



Demonstration: Exterior Locomotive Cleaning

LOCOCLEAN being used in a high capacity automatic washing facility.



The Locomotives go through the high-capacity washing facility in under 5 minutes.

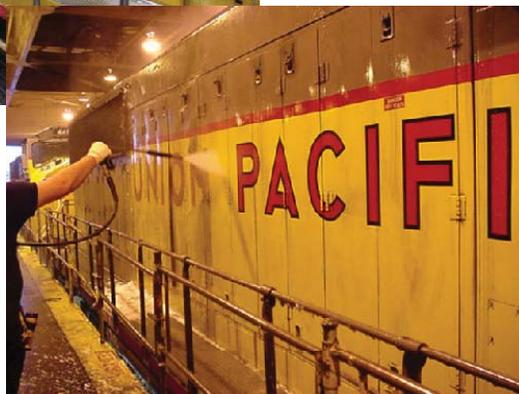
Therefore, a very fast-acting and penetrating cleaner is required.

LOCOCLEAN meets these requirements.

Demonstration: Hand-Washing Exterior Locomotive Cleaning



1. Spray-on
LOCOCLEAN using a
low pressure sprayer



2. Rinse off
LOCOCLEAN with a
pressure washer



3. RESULTS:
Before
&
After



Demonstration: Locomotive Engine Cleaning



Engine cleaning process:
operator is applying foam in
the background. LOCOCLEAN
has already been applied to the
engine in the foreground and is
self-cleaning the engine.

(continued next page)

Demonstration: Locomotive Engine Cleaning



Apply LOCOCLEAN on engine with low pressure sprayer



LOCOCLEAN cleaning action as it dwells on engine



RESULTS: Before (above) & After (below)

