



The Cleaner™

**heavy duty germicidal detergent complex
for sump and machine cleaning**

THE CLEANER is a heavy duty germicidal detergent complex formulated specifically to remove build ups and kill odors and rancidity causing microorganisms in the coolant system of metalworking machines prior to recharging with fresh coolant. Light purple in color, THE CLEANER forms a clear solution when diluted with water.

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Providing Quality Maintenance and Chemical Specialty Solutions with Unparalleled Customer Service



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Formulated to accomplish the heavy duty cleaning tasks of dirty machine sumps, THE CLEANER offers users the following advantages:

ONE OF THE FIRST EPA REGISTERED MACHINE CLEANERS:

THE CLEANER was thoroughly tested and evaluated by the EPA (Environmental Protection Agency) and subsequently authorized as a registered disinfectant machine cleaning compound one of the first, if not the first, designed specifically for the metalworking industry. EPA Reg. No. 5741 19. EPA Est. No. 5741 OH 1.

KILLS ODOR CAUSING BACTERIA AND FUNGUS:

THE CLEANER's disinfecting properties kill odor causing bacteria and fungus that literally destroy the rust and corrosion inhibitors, lubricating properties, and overall stability of any metalworking fluid.

RAPID GREASE AND TRAMP OIL EMULSIFICATION:

The excellent emulsification characteristic of THE CLEANER removes accumulations of grease and lubricating oils from the machine surface, coolant lines, filtration equipment, and the coolant sump . . . rinsing them away.

EASY TO USE:

THE CLEANER is completely soluble in hot or cold water and mixes thoroughly with very little agitation. Unlike some other machine cleaners, no special mixing equipment is required for THE CLEANER.

REJECTS OILS & GREASE AFTER USE:

After THE CLEANER has been removed from the machine and allowed to sit undisturbed for 24 to 48 hours, the floating oils and greases can be skimmed off. In most areas, the water

portion can then be poured into the sanitary sewer system.

ECONOMICAL:

THE CLEANER is a concentrate and is designed to be diluted with water.

VERSATILE:

THE CLEANER is excellent for cleaning other areas of the manufacturing plant such as floors, walls, or wherever a highly alkaline cleaner is called for. The high detergency of THE CLEANER removes grease and oils from concrete floors, inspection tables, parts racks, and other hard surfaces. THE CLEANER is also excellent for cleaning oily protective film from parts, salt residues from acid baths, or coolant from a previous operation preventing dirt and debris from contaminating the coolant in the machine. THE CLEANER can be used to remove all residue of coolant or tramp oil from the parts after machining prior to being painted or plated thereby insuring good adhesion.

SAFE:

THE CLEANER is a water based, nonflammable formula. THE CLEANER does not contain solvents, phosphates, petroleum oils, heavy metals or highly toxic materials. THE CLEANER is biodegradable and non hazardous when used in accordance with safety precautions and label directions.

IMPORTANT: : Properly cleaning the machine prior to installing a Spartan coolant is the most important aspect of any installation. Starting with a clean machine will extend the life of the coolant and keep it odor free up to and exceeding 10 times longer than coolant in a machine that has not been cleaned properly. Not only do you insure superior coolant performance, but the operator will appreciate a clean machine and he will try to keep it that way, which helps you. You also look more professional and this can help in selling more quality IPG products.



MACHINE CLEANING PROCEDURE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

1. Assemble, next to the machine and prior to starting, all necessary equipment needed to clean the system. This should include but not be limited to brushes, scrapers, pumps, hookup to drain, hookup to water supply, scoops, pressure spray equipment, buckets, coveralls, gloves, safety glasses and THE CLEANER.
2. Thoroughly pump out or drain all the old coolant from the machine. Be sure all hard to reach areas such as sump pump, drain lines, dead areas, and low spots are completely free of old coolant.
3. While the machine is being pumped out or drained, manually scrape and remove all chips, fines, coolant residue, slime build up, and all other debris from the surface of the machine, tooling areas, coolant return troughs and lines, splash guards, and coolant sump.



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4. Remove and clean all base plates, pump filters, and removable weirs to insure all hard to reach areas are accessible to further cleaning.

NOTE: The better job you do in Steps 3 and 4, the easier and more efficient the following steps will be.

5. Add sufficient water and THE CLEANER to the machine sump (one half to two thirds full) to enable the coolant pump to circulate THE CLEANER throughout the system. Be sure to open all the coolant nozzles and pipes completely. On numerical control (NC) and multi station machines, there may be more than one coolant nozzle. Be sure to index the turret or tool holders to ensure that all coolant nozzles are clean and free flowing.

NOTE: THE CLEANER is normally used at 30 40:1. If the machine is excessively dirty or severely rancid, the concentration should be increased to 10:1.

CAUTION: THE CLEANER solution should never be allowed to contact the electrical control mechanisms of the machine or the numerical control (NC unit) of the machine due to possible shorting out of this equipment.

6. While THE CLEANER solution is being circulated in the machine, manually scrub down (use a pressure sprayer if necessary) all machine surfaces, coolant troughs, splash guards, filter areas, tooling mechanisms, and all other areas of the system.

7. Allow THE CLEANER to circulate throughout the entire system for a minimum of 15 minutes.

8. Thoroughly pump out THE CLEANER solution from this system and remove all other debris that has been loosened up by THE CLEANER.

9. Visually inspect the machine to be sure that ALL AREAS of the system have been thoroughly cleaned and scraped free of all chips, fines, bacterial slime, and other debris. If the machine is still dirty, repeat Steps 5 through 8.

10. Rinse the machine by adding a sufficient amount of plain water to the sump to circulate throughout the system. This includes all accessible machine surfaces.

11. Completely pump out or drain the rinse water.

12. Repeat Steps 10 and 11 until the system is rinsed clean.

NOTE: Inspect sump carefully for contamination.

13. Charge the system with the appropriate coolant at the recommended concentration immediately to prevent flash rusting on the surface of the machine. To determine the sump capacity of any machine use the following formula to determine how much cleaning solution will be required as well as how much coolant will be required to charge the machine:

$$\frac{\text{(Width x Length x Height (in inches))}}{231} = \text{Total Sump Capacity in Gallons}$$



14. Repeat cleaning procedure when system becomes excessively dirty.

Be sure to read all Directions, Precautionary and First Aid Statements on product labels before use of this or any IPG/Spartan product. Material Safety Data Sheets for all IPG/Spartan products are available from your authorized IPG/Spartan distributor.

GUARANTEE: Spartan's modern manufacturing and laboratory control insure uniform quality. If dissatisfied with performance of product, any unused portion may be returned for credit within one year of the date of manufacture.



Distributed by:

PACKAGING	
299560	275-gallon totes
299555	55-gallon drum
299505	5-gallon pail



Label copy is provided in English, Spanish and French. Secondary labels are also available.

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