



Walter Surface Technologies' Bio-Circle aqueous cleaning products "eat" oil, grease and other contaminants, and convert them to harmless by-products.



CLEANERS, PAINTS & LUBRICANTS

ENVIRONMENTAL SAFETY DRIVES NEW CHEMISTRIES AND BETTER PRODUCTS

Flint, Michigan's lead-contaminated water supply is just the latest reminder of the long-term threats posed by hazardous materials and chemicals used by prior generations. Sustainability and environmental awareness are inspiring industrial research to develop products that perform as well as their toxic forebears, but without being hazardous to users or the environment. Today's products aren't your grandfather's skull-and-crossbones paints, solvents and lubricants — they're better.

WALTER SURFACE TECHNOLOGIES/ BIO-CIRCLE

Bio-Circle has been addressing the "green issue" by introducing bio-remediation products to the MRO and metalworking markets. In the bio-remediation process, live micro-organisms within aqueous cleaning fluids break down oil, grease and other organic contaminants.



LAPOINTE

Typically, the process takes place in a parts-cleaning sink, and the bio-remediating fluids require heat for optimal performance. In much the same way that humans live by eating, breathing and producing waste, the micro-organisms consume and digest the contaminants and convert them to harmless by-products: mostly water and carbon dioxide.

"It's a very simple chemical reaction," explains Patrick Lapointe, vice president of research and development for Walter Surface Technologies Inc., which manufactures the Bio-Circle line of aqueous cleaning products. "The micro-organisms derive energy from breaking the chemical bonds in the hydrocarbon chain, releasing molecules of water and carbon dioxide. It's a totally natural process."

By converting oil, grease and other contaminants into harmless by-products, bio-remediation can help companies reduce their chemical-waste footprint — and not just on the factory floor.

CONTINUED ON PAGE 74

Stay focused on the job - XtremeClean keeps vacuums working



XtremeClean automatic filter cleaning

Nilfisk helps you "choose the right tool for the job" with a complete line of wet/dry vacuums that handle tough building and construction debris.

XtremeClean wet/dry vacuums protect workers from dangerous dust blowing back into the air by automatically cleaning the filter every 20 seconds. This maintains suction at peak performance and extends the life of the vacuum, so you can stay focused on your job. Auto-tool start, speed control and accessories are included to handle the toughest, dirtiest jobs.

Visit NilfiskAltoVacuums.com/xtremeclean to learn more.



Patented technology cleans the filter with powerful blasts of air every 20 seconds.





All Dampney aerosol paints and coatings have been reformulated to use low-MIR (Maximum Incremental Reactivity) solvents to meet or exceed EPA and state emissions requirements.

automotive paint, which come in a wide range of colors. And, when applied over their silicone primer, can withstand repeated thermal cycling to 1,200 degrees and will not blister. These coatings, made with low-MIR solvents, are safer for the health of people, animals and the environment. **CS**

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the benefits Sullube has historically provided, and adds additional value with the extended fluid life, all backed by the expertise of The Dow Chemical Company.”

DAMPNEY COMPANY

Dampney Company, Inc. has announced that all of its aerosol paints and coatings have been reformulated using low-MIR (Maximum Incremental Reactivity) solvents in order to protect people and the environment. This includes their wide variety of high-temperature automotive, commercial and industrial products.

“MIR value measures the tendency of a chemical to form ground-level ozone and smog which can be harmful to humans and the environment,” explains Dennis Aikman, marketing director. “Dampney aerosol paints and coatings with low MIR values meet or exceed EPA and state emission requirements. Our low-VOC (Volatile Organic Compounds) compliant coatings are also offered in bulk packaging.”

Dampney aerosol paints and coatings include Thurmalox stove paint and Alvin high-temperature

Sullube Polyglycol-based lubricant prevents the formation of varnish, a leading cause of air end failure. It helps keep compressors running clean and cool and lasts up to 10,000 hours.



more than 50,000 compressors around the world, Sullube is a high-performance Polyglycol-based lubricant that prevents the formation of varnish — a leading cause of air end failure — and helps keep compressors running clean and cool.

Beyond its ability to protect and clean compressor air ends, Sullube’s new formulation now improves lubricant life up to 10,000 hours.

“Sullair has a strong reputation for the durability of its air compressors,” states Tim Kruto, senior product manager, Aftermarket Products, Sullair. “This formulation combines

“The beauty of bio-remediation is it’s self-renewing,” Lapointe explains. “When you ‘feed’ these microorganisms with hydrocarbons, the micro-organisms live on, and their remediation power stays the same for several weeks. Also, the cleaning agents in the solution will saturate at a much slower rate than solvents.”

Bio-Circle has solutions for bio-remediation including Bio-Circle L and Bio-Circle Ultra and the parts washers to accompany them, including the Bio-Circle Compact S and Bio-Circle Maxi.

“Today, manufacturers are shifting toward aqueous cleaners because they want to adopt products and processes that are safer for their workers and the environment,” Lapointe adds. “However, new customers are pleasantly surprised to learn that bio-remediating fluids — and aqueous cleaning fluids in general — maintain their full cleaning power over a longer time period than solvents.”

SULLAIR

Sullair’s enhanced Sullube air compressor lubricant, produced by The Dow Chemical Company, is used in

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