

GREEN INDUSTRY SHOWCASE

Synthetic lubricants: the wave of the future?

by Mark A. Massoglia

■ Equipment maintenance can often be the determining factor in the success or failure of a landscape business.

A landscaper can't survive long without properly maintained equipment. And proper lubricant selection is the key element in any preventive maintenance program.

For decades, motor oils, two-cycle engine oils, gear lubricants and greases were made entirely from petroleum crude

oil. More recently, however, synthetic lubricants have proven to provide vehicles and equipment with superior protection and extended service life. They are a bona fide alternative to petroleum lubricants.

Advances in engine technology over recent years have decreased the tolerances between engine components, and as a result, lubricants are put under more stress than ever. Combining tighter tolerances with changing fuel quality has resulted in more low temperature congealing, thermal breakdown, accelerated car-

bon deposits in two-cycle engines; high temperature volatilization in four-cycle engines.

Although petroleum goes through a refining process to remove impurities, some residue remains. Synthetic oil bases, on the other hand, are made from the chemically-engineered reaction of materials to produce a compound with a stable molecular structure.

Advantages of synthetic lubricants:

- They provide a superior lubricating film that allows components to move freely without causing metal-to-metal contact.

- Power is increased because less energy is being exerted during the lubrication process.

- Synthetic lubricants contain no wax, providing components with near-instant protection in the critical moments immediately after start-up.

- They are more resistant to thermal breakdown caused by oxidation because they contain no impurities and are able to withstand extreme temperatures.

Business owners and maintenance managers would be wise to note the many advantages of synthetic lubricants. They provide superior performance and are formulated to meet the ever-increasing environmental regulations for off-road equipment.

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—The author is a technical writer for Amsoil, Inc., Superior, Wisc.



Synthetic lubricants are formulated to meet the ever-increasing environmental regulations for off-road equipment.

Fungicide label extends ornamental, turf control

Daconil 2787 flowable fungicide, from ISK Biotech, now extends to 55 damaging diseases on 78 species of broadleaf shrubs and trees—including conifers—as well as foliage plants and flowering plants and bulbs.

A recent review by the Environmental Protection Agency made the label extension possible.

In turf applications, Daconil 2787 fungicide is now labeled for control of algal scum, as well as a broader range of the fungal pathogens that cause dollar spot, brown patch, leaf spot, melting-out, brown blight

and other diseases.

ISK turf and specialty products sales manager, Jerry Pauley, says the label expansion is particularly important due to the growing threat of fungal resistance to single-site fungicides.

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Perennial ryegrass matures early with dark green color

Fine Lawn Research, Inc. has released a new perennial ryegrass, Stallion Select.

Stallion Select (PS-1050p rated perennial ryegrass variety, is an early maturing variety with a dark green color. It is semi-dwarf, and produces a dense turf with

excellent mowing qualities.

Stallion Select is unique, says Fine Lawn, in that it has good resistance to rust, crown rust and leaf spot.

Quick establishment and compatibility with other perennial ryegrass varieties is considered a plus.

Other traits include:

- high levels of beneficial endophytes, at 94 percent or higher;

- good adaptation to cool-season climates. Stallion Select is suited for use in the south as an annual overseeding of Bermudagrass on lawns and golf courses (plant hardiness zones 2 through 10).

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PRODUCT REVIEW

Control weeds for up to six, eight months

Gallery is a selective pre-emergence herbicide from DowElanco that prevents the growth of 95 species of broadleaf weeds for up to six to eight months. It can be used in 440 field-grown and 230 container-grown ornamentals, ground covers, nursery stock, non-bearing fruit and nut crops, non-bearing vineyards and non-cropland areas.

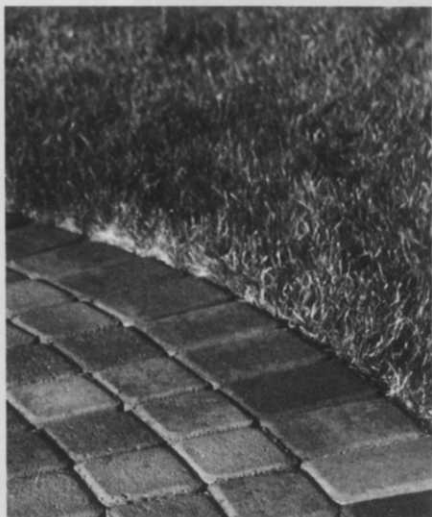
Unique to Gallery is its active ingredient, isoxaben, a new class of chemistry developed by DowElanco.

Gallery is recommended for use on most established cool and warm-season turfgrasses, including bahiagrass, bermudagrass, buffalograss, bentgrass, bluegrass, ryegrass and fescue.

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Keep those paving lines clean with this product

Paver, asphalt and aggregate installations look better and last longer with new heavy-duty StructurEdge aluminum L-shaped paving restraints from PermaLoc Corp.



Five types of restraints are available from a variety of applications around patios, walkways, driveways, maintenance strips, athletic surfaces and natural trails. All readily form curves, radii and angles.

StructurEdge is anchored with 10-inch spiral steel spikes and is designed to receive spikes every six inches on center.

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Irrigation filter simple, innovative and patented

The Thompson Filter, a new, compact, stainless steel irrigation filter has been introduced by Miller-Leaman Inc. The simple design offers an efficient alternative to expensive automatic filters, the manufacturer says.

Available in 2- to 10-inch sizes, the Thompson Filter operates on less horsepower. The filters can handle flow rates up to 2000 gpm and can be used with a manifold. Working pressures are up to 150 psi; screen meshes are available from sizes 30 to 50.

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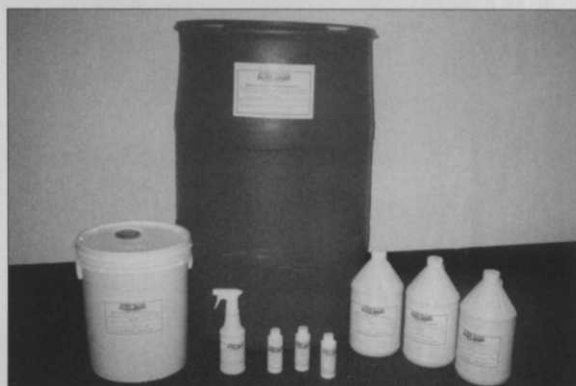


Rust stain remover perfect for landscapers

For any landscape contractor who must keep stucco, concrete, wood, stone, masonry and painted surfaces looking bright and new, Miracle Rust Away could help.

Miracle Rust Away contains no hydrochloric (muriatic) or phosphoric acid.

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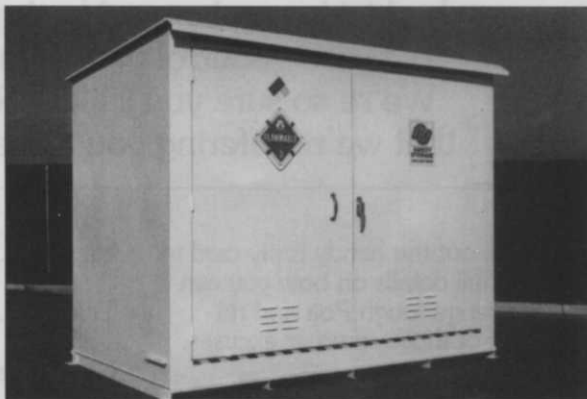
Chemicals safely secured with storage housing

Safety Storage's Model 10 is a prefabricated, movable steel building for storage and containment during mixing and dispensing of pesticides, fungicides, herbicides and flammable materials.

The buildings are 10 ft. long with up to 59 sq. ft. of floor space. A wide range of shelving and partitioning options permit convenient handling of all types of drums, buckets, bags, boxes and small containers.

A 222-gallon secondary containment sup, removable fiberglass floor grating and chemical resistant coating are standard.

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PRODUCT REVIEW

Ornamental herbicide now labeled for five more plants

Grace-Sierra recently expanded the usage specifications for its Rout Ornamental Herbicide.

Rout, formulated for pre-emergence control of weeds in ornamental and landscape crops, can now be applied to English Boxwood, Scotch Pine, Korean spice viburnum and conifers *Taxus "Hicksii"* and *Taxus "Runyon."*

Common names for 41 previously-approved species have also been added to the product label, in order to ease grower identification of labeled species.

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Convert trimmers to power scrubbers quickly, easily

Scrub-Rite Products of Virginia Beach, Va. has marketed the Scrub-Rite Conversion Kit.

The conversion Kit is a complete kit



which transforms commercial gasoline-powered grass trimmers into multi-purpose cleaning machines.

When combined with controlled, high rpm of a commercial grass trimmer, Scrub-Rite's customer-designed brushes can clean just about anything.

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Tackifier keeps seed, fertilizer and soil in place

Silva-Tack is a concentrated tackifier that boosts the binding power of mulch.

The result is a web-like network of interlocking fibers that cling to the soil to hold seed, fertilizer and soil in place.

Silva-Tack stabilizes soil and sand and controls fugitive dust.

According to Weyerhaeuser, Silva-Tack yields 93 percent soluble material while one of its closest competitors yields only 45 percent.

Silva-Tack's ability to quickly and completely dissolve in water means the binder will be effectively and evenly distributed

to the mulch.

Silva-Tack contains no reducers, fillers or inert ingredients. Made from 100 percent natural, non-toxic materials,

Silva-Tack will not harm wildlife, soil or machinery.

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Spill control fast, effective with new drum wrapping

DrumRoll is a new twist in spill control technology: an inflatable wrapper that seals leaks instantly till repairs can be made.

DrumRoll has an easily activated CO₂ cartridge that immediately inflates a Teflon-coated bladder to seal the leak.

Fast deployment lessens spill clean up and eliminates the need for tipping and pegging.

DrumRoll fits steel, plastic, and fiberboard 55-gallon drums.

It stops leaks up to seven x two inches and shuts down liquid and granular leaks.

DrumRoll offers companies a reusable training kit to reduce training cost.

Each training kit contains a rugged DrumRoll that can be used for up to 50 applications, 10 CO₂ cartridges a training video and manual.

A mounting bracket is also available and specification sheets available on request.



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PRODUCT REVIEW

Golf carts double as cargo transports with add-on rack

Columbia Industrial Division has a Car-Go-Rack attachment to convert Columbia shuttles and Eagle ParCar vehicles.



The rack features include an all-steel cargo frame and a 5/8-inch marine plywood floor with non-slip covering.

Circle No. 202 on Reader Inquiry Card

Systemic fungicide battles oak wilt, Dutch elm disease

Ciba's Alamo fungicide helps control oak wilt and Dutch elm disease, two of the most deadly tree diseases in the U.S.

The systemic has been used successfully for more than two years in Texas to control oak wilt. University of Minnesota research confirms that the product is effective against both diseases, even in cooler climates.

If applied before symptoms appear, Alamo may rescue trees with up to 30 percent crown loss.

Alamo is injected with special equipment into the flare roots. Ciba recommends arborists be consulted to do the injection.

Circle 203 on Reader Inquiry Card

Voice memory pager keeps you in touch

Motorola's Voice Memory Keynote Pager is a miniature, portable answering machine.

Users can listen to messages instantly or play them back later by pressing a single button. The Voice Memory Keynote retains four eight-second messages in memory as a standard feature or two 16-second messages as an option.

The message can be heard at once or saved for later. Motorola also offers the Keynote Tone & Voice Pager, similar to the Voice Memory Keynote, but without the memory capability.

Both Keynote Pagers have an ergonomic, rotary, volume control to adjust sound to different environments.

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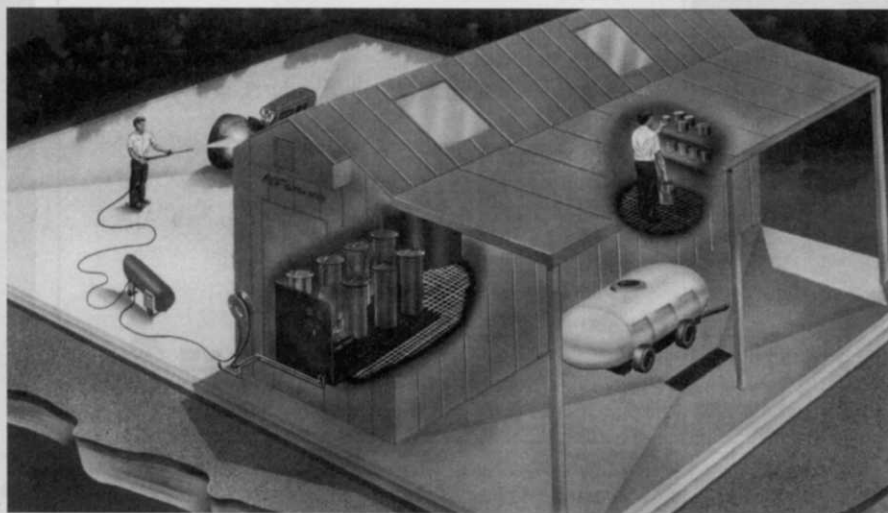
Turf-type bermudagrass is drought tolerant, dense

Primavera is a new and improved seeded, turf-type bermudagrass from Farmers Marketing Corporation of Phoenix.

Primavera was developed in the same breeding program that is responsible for NuMex Sahara. Primavera is finer textured, darker green and has a greater density than common bermudagrass, says Farmers. Primavera is described as drought tolerant, and with improved stunt mite resistance.

Primavera performed well in recent tests at the University of Georgia. In evaluations for turf coverage, spring green-up, color and visual quality, Primavera ranked at the top of its statistical group.

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The Ultra-Shed an answer to containment problems

The Ultra-Shed—from RGF Environmental Systems, West Palm Beach, Fla.—was designed in response to the Clean Water Act regarding pesticide storage and mixing and storm water run-off discharge requirements from equipment washing. The Ultra-Shed chemical containment building is available with various permanent pad designs and an optional Ultrasorb, closed-loop recycling system, which allows you to bring your current maintenance equipment washdown and mix/load facilities up to environmental par, while avoiding possible penalties, fines or soil remediation costs.

The Ultra Shed is available in several sizes, with optional overhang, special poly grid flooring, a wide variety of siding, roof and trim colors. Accessorize with extra storage shelving, overhead doors, windows, emergency shower/eyewash systems and pad designs.

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1993 BUYER'S
GUIDE, COMING
IN SEPTEMBER!**

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