

ADDVANCE™

Botanical Metalworking Lubricants



Eco-Friendly Lubricant Solutions for the Metalworking Industry

**Machining &
Grinding Coolants**

MicroLubricants

Metallforming Lubricants

VOC-Free Vanishing Lubricants

Wire Drawing Lubricants

Corrosion Preventatives

Maintenance Lubricants

Industrial Cleaners

ADVANCE™

Botanical Metalworking Lubricants



Metalloid Corporation has been a single source supplier of metalworking fluids for over 51 years. Our goal has always been to focus on the total needs of the metalworking industry. We made it our mandate to develop and market a complete line of metalworking fluids free of oil, solvent and chlorinated paraffin. Further, our focus is to develop and market fluids that are environment and worker safe. We put considerable resources and technology into our plan to become a single source supplier of earth friendly, botanical metalworking fluids. The idea was bold, but we knew it must be accomplished to address the changing needs of our planet and the metalworking industry.

METALLOID Corporation embarked on formulating unique bio-based additives that would provide our end-user with the same performance benefits of oil, solvent and chlorinated paraffin. The ADVANCE™ Product Line is the result of our efforts. ADVANCE™ metalworking products provide a single source ECO FRIENDLY – BOTANICAL – SOLUTION FOR THE METALWORKING INDUSTRY.

The ADVANCE™ Product Line of Botanical Metalworking Fluids include ...

- Machining & Grinding Coolants
- Microlubricants
- Metalforming Lubricants
- VOC-Free Vanishing Lubricants
- Wire Drawing Lubricants
- Corrosion Preventatives
- Maintenance Lubricants
- Industrial Cleaners

Metalloid used good old American ingenuity to produce an earth friendly, worker safe Botanical line of metalworking fluids for you, our valued customer. We have developed a complete line of fluids designed to provide real world green technology free of oil and harmful additives. The result is an earth friendly, lower cost alternative to the old way of thinking.

One Source... One Solution... One World

Telephone 800.686.3201

RENEWABLE ALTERNATIVES

Machining & Grinding Coolants Cutting Edge Green Technology



Metalloid's **machining and grinding coolant** line includes soluble oil, semi-synthetic and synthetic lubricants. Many of these coolants are formulated without oil using botanical, biostable and renewable resources. This earth friendly technology provides a real world solution to industry without the use of hazardous additives.

Microlubricants Earth Friendly Minimum Quantity Lubricants (MQL)

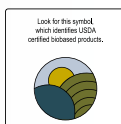


Microlubrication (MQL) is proven technology used successfully to replace costly flood/mist recirculation systems. MQL technology provides excellent results in terms of performance, safety, and total system cost. This water-free technology eliminates waste, corrosion and rancidity, thus improving the work environment. Metalloid's MQL's are ideally suited for near dry machining on steel, aluminum and copper alloys.

Benefits

- Eliminate coolant mist, waste and maintenance
- Cost effective
- No post cleaning required
- Improved operator acceptance
- Environmentally friendly alternative to flood coolant

Metalfforming Lubricants Worker Safe



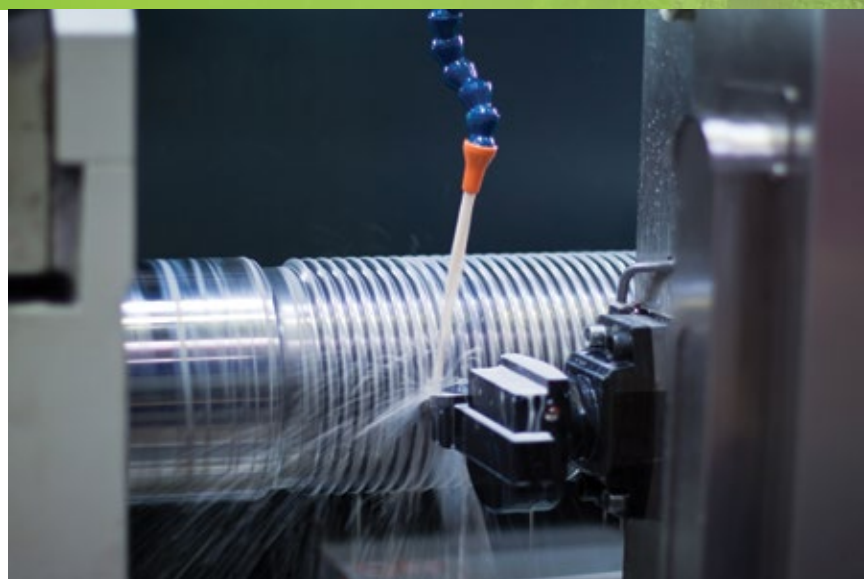
General Metalfforming

Metalloid's **ADVANCE™** line of metalfforming fluids are formulated with Botanical Based, Non-Toxic, renewable resources. Our **ADVANCE™** products are oil-free and VOC-free lubricants that are friendly to people and the environment. Metalloid's metalfforming lubricant line is state-of-the-art, high performance technology that will offset the use of conventional chlorinated additives.

Tube Forming Lubricants

Metalloid's tube forming lubricants fit the needs of manufacturers and fabricators of tubing working with seamless or seamed tube, ferrous or non-ferrous metals. Regardless of your tube diameter or wall thickness Metalloid Corporation has a lubricant to improve your process. These lubricants are biodegradable, heat treatable, easy to clean off and operator friendly. If you choose to go green, Metalloid's **ADVANCE™** products are Botanical Based lubricants formulated with renewable resources produced in America. Our **ADVANCE™** products are oil-free and friendly to people and the environment.

If you cut, bend, draw, expand, perforate or end-form tubes, let Metalloid be your partner in process improvement.



VOC-Free Vanishing Lubricants Specially Formulated Bio-Base alternative

ADVANCE™ VOC-Free Vanishing Fluids are formulated to provide unique lubricity performance that will offset the use of conventional chlorinated additives. The **ADVANCE™** line of Botanical Based VOC-Free Vanishing Lubricants have excellent high temperature oxidation stability. They are recommended as an environmentally friendly petroleum alternative for industrial applications. They contain no solvents and are applied in a thin film. These VOC-Free products meet the requirements of industry and environmental legislation.

Wire Drawing Lubricants Biostable Alternatives



METALLOID'S WIRE DRAWING LUBRICANTS are used to draw, weave and rod breakdown all metals. Whether you draw spring wire, copper wire, copper clad wire, aluminum alloys, stainless or other specialty wires **METALLOID** has the lubricant to optimize your process.

If you choose to go green, **METALLOID'S ADVANCE™** line of wire drawing lubricants are derived from botanical based, renewable resource technology. Our green line includes liquids, pastes and dry film lubricants.

Corrosion Preventatives Environmentally Safe



In addition to traditional types of corrosion preventatives, Metalloid has included the **ADVANCE™** bio technology to provide earth friendly RP alternatives. These products can be used indoors or outdoors for short-term or long-term protection of metal.



Maintenance Lubricants

Bio Performance Botanical Solutions

Metalloids BIO PERFORMANCE maintenance lubricants are comprised of unique blends of vegetable oils plus performance additives for maintenance applications calling for ISO grade fluids. Superior boundary lubrication is supplied by state-of-the-art, botanical blends while wear-reducers provide extra protection for particularly difficult applications. Load-carrying capability is installed via a unique 100% botanical-ester. This allows use of "green chemistry" to meet hydraulic ISO requirements in a regulatory-stable format now and in the future.

The benefits of this unique BOTANICAL TECHNOLOGY ARE:

- Reduced lubricant temperature
- Inhibit lubricant foaming and oxidation
- Reduced pump wear
- Environmentally safe
- Waste is non-hazardous
- Eliminate smoke and oil residues
- Long lubricant and equipment life
- Biodegradable
- Reduced disposal cost
- Higher flash and fire points
- Improved seal compatibility

Industrial Cleaners

Clean & Green For You & Your Workplace

Metalloid offers a complete line of water-based, environmentally friendly alternatives to solvent based cleaners containing high levels of VOC's. If you want to wash your hands, clean the shop floor, clean parts and machine tools we have the **green cleaner** for you. Our cleaners are designed for hot tank, spray, ultrasonic, vibratory, and maintenance applications.



ADVANCE™

One Source... One Solution... One World

For more information
about our line of botanical,
earth friendly alternatives,
please contact us toll free
at **1.800.686.3201**,
or visit our website at
www.metalloidcorp.com.

RENEWABLE ALTERNATIVES

***One Source...
One Solution...
One World***



Eco-Friendly Lubricant Solutions for the Metalworking Industry

**Machining &
Grinding Coolants**

MicroLubricants

Metallforming Lubricants

VOC-Free Vanishing Lubricants

Wire Drawing Lubricants

Corrosion Preventatives

Maintenance Lubricants

Industrial Cleaners

Look for this symbol,
which identifies USDA
certified biobased products.



Michigan Facility
1160 White Street
Sturgis, MI 49091
telephone 800.686.3201
facsimile 269.503.7795

Alumicoat Facility
500 Jackson Street
Huntington, IN 46750
telephone 260.358.4610
facsimile 260.356.3201

Texas Facility
1720 N. Quevado St
Jacksonville, TX 75766
telephone 903.589.3933
facsimile 903.589.3924

www.metalloidcorp.com