

**MicroLubricant  
ML-625**  
**Minimum Quantity Lubrication**  
**Botanical MicroLubricant for Steel and  
Aluminum Alloys**



**PRODUCT DESCRIPTION**

**MicroLubricant ML-625** is a 100% botanically derived (green), microLubricant. This minimal quantity lubricant is applied in “drops” to eliminate traditional flood coolant applications. **MicroLubricant ML-625** is ideally suited for *near dry machining* (NDM) operations. This lubricant is an excellent choice for all-purpose machining of steel and aluminum alloys.

**BENEFITS**

- ✓ **Eliminates** coolant waste
- ✓ **Eliminates** coolant maintenance
- ✓ **Eliminates** corrosion
- ✓ **Eliminates** post cleaning process
- ✓ **Eliminates** rancidity and odors
- ✓ **Eliminates** costly additives
- ✓ **Eliminates** mixing/measuring
- ✓ **Eliminates** smoke and oil residue
- ✓ **Improves** air quality – no misting
- ✓ **Eliminates** staining on sensitive metals
- ✓ Unlimited shelf life
- ✓ Produces dry chips – easier to process
- ✓ Cost effective
- ✓ **Eliminates** petroleum oils
- ✓ **Reduces** friction and heat
- ✓ **Faster** machining – **Improved** finishes

**APPLICATIONS**

**MicroLubricant ML-625** is the ideal replacement for operations using water-dilutable coolants. These operations benefit from MQL due to the unique lubrication properties, including but not limited to the specific operations listed below:

- ✓ Sawing & Cut-Off
- ✓ End Forming (Multiple Die)
- ✓ General CNC Machining
- ✓ Roll Forming
- ✓ Spinning
- ✓ Deep hole drilling
- ✓ Swaging
- ✓ Vacuum forming – Mold Release
- ✓ Injection molding
- ✓ Metalforming operations

**DIRECTIONS FOR USE**

**MicroLubricant ML-625** is used as received. The lubricant is typically applied directly to the cutting tool through an adjustable applicator that does not atomize. **MicroLubricant ML-625** must contact the tool **before** cutting or forming begins. Increasing the feed rate eliminates hot parts and reducing the feed rate eliminates hot tooling.

**PROPERTIES**

<b>Appearance</b>	Clear, yellow liquid	<b>Water Solubility</b>	N/A
<b>Odor</b>	Bland	<b>pH</b>	N/A
<b>Specific Gravity</b>	0.9044 @ 72°F	<b>Biodegradable, Biorenewable,</b>	Yes
<b>Heat Treatable</b>	Yes	<b>Biosustainable</b>	

**PACKAGING:** **MicroLubricant ML-625** is available in 1 gallon containers, 5 gallon pails, 55 gallon drums and 330 gallon totes.

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind, expressed or implied, and we assume no responsibility for loss, damage, or expense, direct or consequential, arising out of their use.

No one understands micro lubrication better than Metalloid, so no one else can bring you advanced technology that works on the issues that matter to you. Get the whole story by calling Metalloid at **800.686.3201**.



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Micro Lubrication, now that's... **Clever.**

