Product Application Guide

Vegetable Ester Based – Soluble Products

- **Mecagreen 127** – Light duty, great for Cast Iron and ductile iron, good for light grinding, peeling, and shaving.
- **Mecagreen 400** – Mid Range, contains boron, not recommended for Aluminum. Good Job Shop coolant.
- **Mecagreen 450** and 450 HP – Big seller, multi-metal safe, do not exceed 10%, Good Job Shop Coolant. HP has defoamer for high pressure. MG 450 AERO HP has some approvals.
- **Mecagreen 550** – HD, Aerospace Approvals, Multi-metal safe, 2nd highest lubricity factor. Do not exceed 10%.
- **ADVANTAGES** – common theme with Mecagreen products are measurably reduced usage – case studies to share, cleaner SDS's

Mineral Oil based – Soluble Products

- **Polybio 300** – light duty, mild machining and grinding, not ideal for aluminum. Similar applications as the MG 127.
- **Polybio 535** – Great job shop coolant, big seller, small amount of vegetable ester (tool life), not ideal for deep hole drilling, form or cut tapping on hard alloys. Non-chlorinated.
- **Polybio 540** – Chlorinated, better for tapping, good job shop coolant.
- **Polybio 650 ABF**- Highest lubricity factor, very gutsy product, multi-metal safe, great on aerospace aluminums and cast aluminum, NEED DI water or very high-quality water, good to get a water sample up front.
- **ADVANTAGES** – good range of performance, often cleaner SDS's than similar competitive products, newer products are boron and biocide free

Full Synthetic – Water Miscible Products

- **Condacool 530** – great for grinding, and light-mid duty applications, clean running.
- **Condacool CW** – carbide grinding, tool manufacturers. Competitively priced.

Job Shop (multi-metal, price competitive)

- **Mecagreen 450/450 HP – big seller in a wide variety of applications**
- **Polybio 535 – one of our top three products in terms of volume – limited on high volume aluminum machining**
- **Polybio 540 – great all around coolant that is also chlorinated for some heavier applications**
- **Polybio 300 if all low carbon steel or light machining – Ran it in TX on a lot of low carbon steel for oil field.**
- **MG 127 for all cast or ductile machining – great performance on cast/ductile and excellent RP, clean running**