



## KLENEDRAW® W-4801

**KLENEDRAW W-4801** is a synthetic solution formulated as a lubricant for metal stamping and drawing operations. It does not contain petroleum oil or chlorinated paraffin's. **KLENEDRAW W-4801** will provide lubrication for tooling doing very heavy duty metal forming operations. It has excellent wetting characteristics and interacts with metal surfaces to produce a high strength boundary and chemical extreme pressure lubricating film. **KLENEDRAW W-4801** cleans easily in low temperature aqueous wash systems and is approved for e-coat paint lines.

### USAGE

**KLENEDRAW W-4801** can be used as a straight concentrate or at dilutions up to 19:1 with water. Add **KLENEDRAW W-4801** to water and mix until it forms a pure solution with the water. It can be applied using JET-SET® hydraulic airless spray systems, drip, roller coater or flood methods. Clean in aqueous wash systems using an alkaline cleaner such as **TOWERKLENE 42-A** at a low concentration.

### PHYSICAL CHARACTERISTICS

Density	1.06 g/ml 8.8 lbs/gal
Appearance	Amber Gold Liquid
Odor	Bland
Flash Point	None
pH of Concentrate	Typically 9.4
VOC's	0.0 g/L (EPA Method 24)
Refractive Index (freshly diluted)	15.6 @ 3:1 12.5 @ 4:1 8.9 @ 6:1 6.3 @ 9:1 4.5 @ 13:1 3.9 @ 15:1 3.1 @ 19:1
Refractive Index Factor	1.6 x RI = Vol %

### BENEFITS

- Is a Very Operator-Friendly Product
- Contains No Hazardous Ingredients
- Affords Excellent In-Process Rust Protection
- Cleans Easily In Low Temperature Water Based Solutions
- Replaces Straight Compounded Oils
- Performs Heavy-Duty Operations at Extended Dilutions
- Weld Through Without Cleaning
- Produces an Extreme Pressure Lubricating Film

### TECHNICAL SUPPORT

This is a Proprietary product. TOWER wants to assist you in evaluation and selection of suitable products. We urge you to take advantage of this service. This information sheet and TOWER's assistance, however, are not a substitute for your own testing and evaluation.