

# Emerald CNC

## ENVIRONMENTALLY SAFE, WATER BASED METALWORKING FLUID

Emerald CNC is a proprietary formulation that is designed to replace chlorinated paraffin without environmental risk. This will also reduce potentially hazardous waste, and potential paint problems.

### FEATURES & BENEFITS

Unique characteristics of Emerald CNC make this a superior cutting fluid for most industrial applications. These characteristics include:

- **Water Based:** Safe & easy machine clean up
  - No chlorinated paraffin or sulfur
  - Safer for your employees
  - Cleaner working environment
  - Eliminates oil mist
- **Multi-Metal Protection:** Unique protection for galvanized and other metals
- **Superior Lubricity:** Extends tool life for added cost savings
- **Rust Inhibition:** Superior performance in ASTM D1748 humidity cabinet
- **Unique Formula:** Superior cooling chemistry
  - Improves tooling life
  - Lengthens the life of your coolant
- **Superior Wettability:** Better coating of the work surface
- **Tramp Oil Rejection:** Allows for easy removal by skimming
- **Low Carry Off:** Cleaner parts and less coolant depleted
- **Very Low Foaming:** eliminates excessive maintenance
- **Exceptional Anti-Microbial Properties:** Stays cleaner and lasts longer; avoids dermatitis and other health issues

### ENVIRONMENTALLY SAFER

Emerald CNC is a water-based, environmentally-friendly and worker-friendly metalworking fluid. (See: Safety Data Sheet)

### ECONOMICAL

Emerald CNC is competitively priced, and contains no unnecessary thickeners.

RECOMMENDED USAGE GUIDELINES		
Application	Minimum Ratio WATER / COOLANT	Maximum Ratio WATER / COOLANT
Drilling	8:1	6:1
Grinding	10:1	8:1
Milling	8:1	6:1
Tapping	8:1	6:1

### TECHNICAL INFORMATION

- Color – Clear amber
- PH - 8.4 – 9.6
- Odor – Mild
- Boron Free
- Nitrate Free
- Oil Free

### VARIABLES THAT INFLUENCE RATIO

1. Type of metal, grade and gauge
2. Type of Tooling
3. System cleanliness
4. Coolant application system
5. Work temperature range

### COOLANT MANAGEMENT

1. Clean system prior initial coolant charge (Cleaning procedure available)
  - Drain, disinfect and clean with alkaline cleaner
  - Add coolant per recommended ratio
2. Water quality will impact results
  - Hard water may cause rust issues
  - Assistance available at Biosolutions llc.
2. Maintain system cleanliness
  - Excessive dirt and oil will impact tooling
  - Monitoring pH will reduce dermatitis concerns
  - Coolant management services available

**Call us to put Bio 9001 to work on your equipment.**

**biosolutions**

*Sustainable, Versatile, Economical*

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