



# Saf-T-Cool 451

**Saf-T-Cool 451** is a high performance universal bio-stable coolant. It utilizes state of the art ingredients to provide long sump life without the use of tank side additives. Foul odors and the typical “Monday Morning” (rotten egg) odors are eliminated. **Saf-T-Cool 451** has extraordinary hard water emulsion stability and rejects tramp oil for proper removal. Its natural low foam characteristics make this acceptable in high pressure systems, along with low mist characteristics creating a safe working environment. **Saf-T-Cool 451** uses advanced generation additive technology for superior surface finishes plus increased tool life. The product is designed for cutting and grinding a wide range of ferrous and non-ferrous alloys. It constantly rinses the machine as it runs eliminating any sticky residues and leaving a very light oily film on the machine surfaces. **SF WAY LUBES** are recommended as the machine lubricant to help maintain proper system health.

## USAGE

**Saf-T-Cool 451** forms a premium quality micro-emulsion for machining and grinding. Starting dilutions for machining operations should be between 5 – 10%. For grinding operations, the suggested starting dilutions should be between 4 – 6%. Make-up fluid is typically added at half the target concentration. For proper mixing it is recommended that **Saf-T-Cool 451** concentrate be added to water with agitation

## PHYSICAL CHARACTERISTICS

Density	0.97 g/ml    8.1 lbs/gal
Appearance	Amber Liquid
Odor	Bland
pH @ 5%	Typically 9.0 – 9.5
Refractive Index Factor	1.0 x Refractive Index = Volume %

## BENEFITS

- **Outstanding Emulsion Stability in Hard & Soft waters.**
- **Excellent Operator Acceptance**
- **Prolonged Sump Life Without Foul Odors**
- **Increases Tool Life**
- **Excellent Surface Finish Improves Part Quality**
- **Low Misting & Low Foam Characteristics**
- **Excellent In-Process Rust & Corrosion Protection**
- **Machines Run Clean Without Sticky Deposits or Residues**
- **Non Hazardous Formula Has No Pictograms on The Label**

## 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.