



<b>Product</b>	<b>Type</b>
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**EZ-MULZ™ 4037**

**Metal Processing**

**Premium Emulsifier Base for Naphthenic Oils**

**Application**

EZ-Mulz 4037 is a unique, sulfonate-free emulsifier base designed to emulsify naphthenic oils with aniline points of 195° F or lower.

Based on nonionic and anionic emulsifiers, corrosion inhibitors, buffering agents and other component, EZ-Mulz 4037 is ideal for formulating soluble and semi-synthetic metalworking fluids.

EZ-Mulz 4037 is free from chlorine, nitrites, phenols and heavy metals and is non-staining on aluminum

**Typical Properties**

Test	Typical
Appearance	Clear, reddish liquid
Specific gravity at 25° C	1.0
Water wt. %	5.0
Total acid number, mg KOH/g	50
pH at 1.0% in water	8.7

**Benefits**

- Excellent emulsion stability in all naphthenic oils
- Good lubricity and EP properties
- Low foam and hard water stable
- Good corrosion protection in for ferrous metals
- Compatible with extreme pressure additives such as chlorinated or sulfurized compounds

**Performance**

Corrosion on cast iron ships – ASTM D-4627-92  
Ratings scale: 0 = no rust and 5 = 100% rust

**5% emulsion of 15% EZ-Mulz 4037 in oil.....0**

## Typical Applications

### General-purpose soluble oil

100 SUS naphthenic oil 81 - 85%

**EZ-Mulz 4037** 15%

Biocide 0 – 3%

Fungicide 0 – 1%

### Heavy-duty soluble oil

100 SUS naphthenic oil 71 - 75%

**EZ Mulz 4037** 25%

Biocide 0 – 3%

Fungicide 0 – 1%

### Semi-Synthetic Fluid Concentrate

#### Part I – Oil Phase

100 SUS naphthenic oil 44%

**EZ Mulz 4037** 50%

Biocide 5%

Fungicide 2%

#### **Part II Add oil phase to water while mixing**

Water 55-60%

Oil phase 40-45%

#### **Recommended use of semi-synthetic concentrate**

General machining 5-10%

Heavy-duty machining 10-20%

## Storage and Handling

Recommended Maximum Long Term Storage Temperature*	Ambient
Recommended Minimum Temperature for Use	Ambient
Flash Point	>150°C COC

\*Do not store with excessive heat (>150° F) over long periods.



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