



<b>Product</b>	<b>Type</b>
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**EZ-MULZ™ 5609**

**Metal Processing**

**Emulsifier Base for Paraffinic Oil**

**Application**

EZ-Mulz 5609 is an emulsifier base designed to emulsify paraffinic oils with high aniline points.

Based on natural sodium sulfonate, secondary emulsifiers and other components, EZ-Mulz 5609 is ideal for formulating soluble oils.

EZ-Mulz 5609 is free from chlorine, nitrites, phenols and heavy metals.

**Typical Properties**

Test	Typical
Appearance	Dark brown, viscous fluid
Specific gravity at 25° C	1.01
Water wt. %	9.0
Total acid value, mg KOH/g	29
pH at 1.0% in water	8.6

**Benefits**

- Excellent emulsion stability in all paraffinic oils
- Good corrosion protection in for ferrous metals
- Adds lubricity
- 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 5609 in oil.....0**

## Typical Applications

**EZ-Mulz 5609** can be used in several metalworking applications. For example:

*Use the following as a guideline, balance formula as needed*

### General-purpose soluble oil

#### % by weight

150 SUS paraffinic oil.....	65 - 85
<b>EZ-Mulz 5609</b> .....	15 - 25
Chlorinated additive (Extreme pressure agent).....	0 - 20
Glycol ether (To modify viscosity) .....	0 - 1
Biocide.....	0 - 3
Fungicide.....	0 - 1
Defoamer, if necessary .....	0 - 1

*Adding some biocides may require the addition of tall oil fatty acid to balance the formula.*

## 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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