

Product	Type
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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 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 17% 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
EZ-Mulz 5609	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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