LOCKHART
Technologies for
Better Surface Protection

Technical Data Sheet

Product	Type

EZ-MULZ™ 5454 Metal Processing

Emulsifier base for naphthenic base Oil

Application

EZ-Mulz 5454 is an emulsifier base designed to emulsify naphthenic oils with aniline points of 160°F to 185°F.

Based on natural sodium sulfonate, secondary emulsifiers and other components, EZ-Mulz 5454 is ideal for formulating soluble oils.

EZ-Mulz 5454 is free from chlorine, nitrites, phenols and heavy metals.

Typical Properties

Test	Typical
Appearance	Amber, viscous liquid
Specific gravity at 25° C	1.02
Viscosity @ 40° C, cSt	750
Water wt. %	11
Total acid number, mg KOH/g	25
pH at 1%	9.2

Benefits

- Excellent emulsion stability in all naphthenic oils
- 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 5454 in oil……..0

Typical Applications

EZ-Mulz 5454 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
100 SUS naphthenic oil	65 - 85
EZ-Mulz 5454	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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