

METAL CLEANER 1

APPLICATIONS AND USE

MC-1 Concentrated solution is a biodegradable, caustic free alkaline cleaner formulated for heavy-duty industrial use.

A blend of liquid non-ionic surfactants and detergents, the superior detergent properties, wetting capabilities and free rinsing properties of MC-1 Solution combine to provide an exceptional cleaner for removing difficult soils and contaminants. It removes oils and a variety of soils from aluminium and aluminium alloys as well as copper, brass, and steel substrates. MC-1 is particularly effective for removing fabricating oils, cutting oils and polishing oils.

MC-1 tolerates high levels of contamination. It cleans by displacement – oils, soils and greases float to the solution surface where they can be removed manually or with mechanical skimmers. MC-1 contains a special blend of alkalis and detergents in addition to dispersants, deflocculates, and emulsifiers. The cleaning solution cleans rapidly, penetrating into blind holes and between adjacent surfaces.

APPLICATION PROCEDURES

MC-1 solution is easily mixed with cold or hot water in a concentration of 7-10% by volume. It can be used over a temperature range from room temperature to 130 - 180°F (82°C), and can be used in both tabletop and industrial cleaning tanks. Optimum cleaning performance will be realized at recommended temperature.

Cleaning tanks, heating coils, and any system components, which will contain or be exposed to the solution should be fabricated from a suitable grade of stainless steel.

For optimum cleaning, MC-1 should be operated at recommended temperatures. Cleaning time is dictated by the quantity and nature of the soil. Operating MC-1 below the recommended concentrations, temperatures, or time will generally result in poor cleaner performance, characterized by cloudiness and water breaks. Operating MC-1 above the recommended parameters may lead to component metal attack or cause the surfactants to separate from the solution causing poor cleaning. It is imperative that the solution be allowed to “degas” at operating temperature for a minimum of 10 minutes prior to placing the parts into the cleaning solution. It is best if ultrasonic energy is applied during this time to enhance degassing. Thorough rinsing in one step must be undertaken for removal of cleaning solution. As with any process involving water, drying must be included as the final step.

CHEMICAL CHARACTERISTICS

Chemical Composition	Blend of liquid, non-ionic alkaline surfactants and detergents
Flash point	None
Recommended Diluent	Water
Biodegradable	Yes
Normal Use Concentration	7-10% by volume
Normal Use Temperature	130-180°F
PH at Rinse temperature	9.4
Rinsability	Good

See the MSDS for further information

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