

## MC-2

### METAL CLEANER-2 CONCENTRATED CLEANING FORMULA

#### APPLICATIONS AND USE

Branson MC-2 Concentrated Solution is a biodegradable, phosphate and caustic-free alkaline cleaner formulated for general purpose and normal maintenance cleaning applications. Liquid non-ionic surfactants and detergents are combined in a formulation with excellent detergent, wetting and free rinsing properties which provides exceptional performance for general maintenance cleaning in virtually all industries with virtually all base materials.

Branson MC-2 is an ultrasonic cleaning solution which removes oils and a variety of soils from ferrous metals, steel alloys, titanium alloys, copper alloys, and stainless steel. Branson MC-2 is not recommended for aluminum or aluminum alloys. Branson MC-2 will tolerate high levels of contamination. It is especially effective in removing fabricating oils, cuttings oils, and polishing oils.

Branson MC-2 is an emulsifying cleaner; oils, soils, and greases are entrapped in the cleaning solution and suspended so they can not redeposit on the clean parts. Branson MC-2 contains a special blend of alkalis and detergents in addition to dispersants, deflocculents, and emulsifiers. The cleaning solution cleans rapidly, penetrating into blind holes and between adjacent surfaces.

#### APPLICATION PROCEDURES

Branson MC-2 Solution is mixed easily with cold or hot water in a concentration of 7-10% by volume. Branson MC-2 Solution can be used over a temperature range from 130°F to 180°F (82°F) in suitable commercial and industrial cleaning tanks.

For optimum cleaning, Branson MC-2 should be operated at recommended temperatures. Cleaning time is dictated by the quantity and nature of the soil. Operating Branson MC-2 below the recommended concentrations, temperatures, or time will generally result in poor cleaner performance, characterized by cloudiness and water breaks. Operating Branson MC-2 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 is suggested for removal of cleaning solution. As with any process involving water, drying should be considered as the final step.

The selection and use of the proper ultrasonic cleaning equipment and component fixturing will influence the cleaning efficiency and performance of Branson MC-2.

#### CHEMICAL CHARACTERISTICS

Chemical Composition:	Blend of liquid, non-ionic alkaline surfactants and detergents	Biodegradable:	Yes
Flash Point:	None	Normal Concentration:	7-10% by volume
Recommended Diluent:	Water	Normal Temperature:	130-180°F
		pH at Rinse Temperature:	12.5
		Rinsability:	Good
		<i>See the MSDS for further information</i>	

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