

## *Oxide Remover Concentrated Cleaning Formula*

### APPLICATIONS AND USE

Branson OR Concentrated Solution is a blend of detergents in an acidic carrier which is phosphate-free and bio-degradable.

This formulation has been developed to rapidly remove rust and oxides from many metals. It is used in cleaning and reconditioning relay and switch contacts, removing oxides that result from assembly operations utilizing soldering, brazing, or welding, and similar applications. It can also be effective on ferrous materials for removing surface oxides resulting from storage.

Although the solution may etch or attack reactive metals, it is especially effective with stainless steel, copper, and tin components.

### APPLICATION PROCEDURES

Branson OR Solution is readily mixed in a concentration of 6-7% by volume and can be used

at solution temperatures of up to 120°F (48°C) in cleaning tanks. Optimum performance will be realized at this slightly elevated solution temperature.

Cleaning tanks, heating coils and related components should be fabricated from stainless steel or other materials capable of withstanding acidic solutions.

For optimum cleaning, Branson OR should be operated at recommended temperatures. Cleaning time is dictated by the quantity and nature of the soil. Operating Branson OR below the recommended concentrations, temperatures, or time will generally result in poor cleaner performance, characterized by cloudiness and water breaks. Operating Branson OR 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

# Chemistry

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 OR.

## CHEMICAL CHARACTERISTICS

<b>Chemical Composition:</b>	Blend of detergents in an acidic carrier
<b>Flash Point:</b>	None
<b>Recommended Diluent:</b>	Water
<b>Biodegradable:</b>	Yes
<b>Phosphate Free:</b>	Yes
<b>Normal Use Concentration:</b>	6 -7% by volume
<b>Normal Use Temperature:</b>	70-120°F (22-48° C)
<b>pH at Use Rinse Temperature:</b>	3.8
<b>Rinsability:</b>	Good

## Effect of Working Solution on Metals

<b>Stainless Steel:</b>	None
<b>Steel:</b>	Slight Attack
<b>Copper:</b>	None
<b>Brass:</b>	None
<b>Aluminum:</b>	Slight Attack
<b>Magnesium:</b>	Attacks
<b>Zinc:</b>	Attacks
<b>Tin</b>	None

## DISPOSAL

Neutralize Branson OR Solution, dilute and dispose in accordance with all local, state, and federal regulations.

## PRECAUTIONARY CONSIDERATIONS

- BRANSON OR SOLUTION HAS AN ACIDIC BASE, AND DIRECT CONTACT MAY RESULT IN BURNS OF EYES OR SKIN IRRITATION.
- AVOID PROLONGED SKIN CONTACT.
- WASH THOROUGHLY AFTER HANDLING.
- DO NOT TAKE INTERNALLY.
- IF DIRECT CONTACT OCCURS, FLUSH, REPEATEDLY WITH COOL, CLEAR WATER.
- KEEP OUT OF REACH OF CHILDREN.

# BRANSON

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**INFORMATION:** For additional information concerning Branson OR Solution or other Branson concentrated cleaning solutions, contact your local Branson sales office or BRANSONIC® dealer.

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