

RADIANT MA818-L

RADIANT MA818-L is mildly acidic citric/ammonium citrate blend designed for use in mass finishing applications such as vibratory burnishing, centrifugal disc finishing and open and closed tumbling applications. Although designed for use with carbon steel or stainless-steel finishing media, it is also well suited for use with burnishing and cutting ceramic medias. Not generally recommended for use with polyester resin media due to foaming tendencies. RADIANT MA818-L will help remove oxides and carbonaceous deposits from most metals including brass and copper alloys, aluminum and stainless steel as well as plated metal parts. Can be used for steel media finishing of zinc die castings. In addition to keeping the finishing media clean and deposit free, it will produce bright clean metal surfaces for subsequent operations as necessary. When used in carbon steel finishing, RADIANT MA818-L will provide some protection to the media from corrosion. For periods of more than several days, it is recommended that a longer term aqueous corrosion inhibitor be used to afford full protection from corrosion. Follow use directions for optimal results.

Features & Benefits

Low concentration use in flow through mass finishing applications.	Will remove surface oxide(s) to produce clean metal surfaces
Safe and effective for use on most all metals	Particularly well suited for brass and copper alloys, along with plated metal substrates

Physical Data

Appearance	Clear Green Liquid
Odor	Faint
Compatibility	Caustic – ammonia release
Foaming tendency	Moderate
pH (as supplied)	4.3-5.0
Specific Gravity	1.037 (8.65 lbs./gal.)

Operating Conditions

Vibratory/Centrifugal Disc Finishing:

	Range	Optimum
Concentration	0.8-1.2% by volume (8 – 12 ml/L)	1.2% by volume (12 ml/L)
Temperature	Cold - Ambient	Cold
Time	As required	As required
Flow Rate	1.0-1.5 gals./hr./cu. Ft.	1.5 gals./hr./cu. Ft.

Use of very small media that tends to “pack” tightly may result in excessive foaming with RADIANT MA818-L. Ask your Hubbard Hall technical representative for an alternative lower foaming product that will achieve similar results.

Solution Make-Up:

In general, use of a metering pump to “dose” incoming water line(s) to the vibratory unit or centrifugal disc unit. See the manufacturer’s instructions for setting the pump to deliver the proper quantity of RADIANT MA818-L based on the water flow rate to the bowl. It is important that the drain holes at the bottom of the vibratory unit are free flowing and remain free of any lodged media or part chips, etc..

Product Profile

Caustic	No
Phosphate	No
Silicate	No
Complexors	Yes
Chelates (EDTA, NTA types)	No

Waste Disposal

RADIANT MA818-L and it's working solutions are mildly acidic. They may be neutralized with alkali to meet local POTW or municipal effluent discharge requirements. Sludges and oils should be separated out before discharge. Spent RADIANT MA818-L solutions may contain dissolved metals from the vibratory tumbling process. Therefore, additional treatment of the solution may be required to meet discharge requirements.



Caution

RADIANT MA818-L contains ammonium citrate. Consult RADIANT MA818-L SDS sheet before handling this product. It should be handled with all the safety precautions associated with mild acids.

Hazard Classification

DOT Hazard Class	Not Classified
DOT Shipping Name	NA
UN Number	NA
Packaging Group	NA
Guide Number	NA

WARRANTY: THE QUALITY OF THIS PRODUCT IS GUARANTEED ON SHIPMENT FROM OUR PLANT. IF THE USE RECOMMENDATIONS ARE FOLLOWED, DESIRED RESULTS WILL BE OBTAINED. SINCE THE USE OF OUR PRODUCTS IS BEYOND OUR CONTROL, NO GUARANTEE EXPRESSED OR IMPLIED IS MADE AS TO THE EFFECTS OF SUCH USE, OR THE RESULTS TO BE OBTAINED.

Our People. Your Problem Solvers.

For more information on this process,
please call us at 203.756.5521 or email: techservice@hubbardhall.com

Hubbard-Hall holds certifications for **ISO 9001:2015**, Responsible Distribution, as accredited by the **ACD** (Alliance for Chemical Distributors) and as a **Women-Owned Small Business**, as well as maintaining an association with **Omni-Chem**¹³⁶.