



PRODUCT INFORMATION

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EMERGENCY - MARTRON 704-289-1934
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MARTRON LT-2001

SECTION 1: DESCRIPTION

Martron LT-2001, developed as a result of recent advances in cleaner technology, is a unique new liquid phosphate-free product suited for spray or immersion use on ferrous metals in metal pretreatment and plating porcelain cleaning systems. This cleaner is also suitable for spray application on galvanized steel in metal pretreatment and porcelain cleaning systems. **Martron LT-2001** cleaner retains its excellent cleaning ability without foam at temperature as low as 100° F. Actual minimum temperature is dependent upon the soils encountered.

This heavy-duty alkaline cleaner is designed to effectively remove mill oils, press lubricants and rust preventive oils. **Martron LT-2001** is ideally suited for tough cleaning jobs where minimum phosphate content is needed to satisfy effluent requirements.

Some of the advantages of **Martron LT-2001** leading to cost savings for manufacturers of painted metal products are:

1. Since **Martron LT-2001** is a liquid, it dissolves immediately and complete in the bath whereas powdered cleaners may require lengthy and vigorous mixing. Inadequate mixing of powdered cleaners may require lengthy and vigorous mixing. Inadequate mixing of powdered cleaners can result in wasted undissolved cleaner accumulated on the tank consumption. Maintenance problems, such as sludge formations and blocked and plugged risers and nozzles caused by undissolved powdered cleaner, are eliminated. This results in lower maintenance costs.
2. **Martron LT-2001** is conveniently and automatically metered into an operating bath by the means of a **Martron Inc.** recommended proportioning pump. This eliminated the labor costs, inconvenience, an excessive chemical cost associated with concentration control of powdered cleaners. Easier concentration control with liquid cleaner assures more uniform cleaning and high finish quality.
3. **Martron LT-2001** exhibits high soil tolerance which are designed to go hand in hand with **Martron Inc.** cleaners. This leads to longer cleaner bath life, lower costs and consistently high finish quality.
4. Being a liquid product, greater surfactant and wetter content are possible in formulation of **Martron LT-2001** without the risk of caking and sintering problems that can occur with powdered products. This contributes to improved cleaning efficiency, low operating concentration, and economy of **Martron LT-2001**.
5. Since **Martron LT-2001** is a liquid, it is available in bulk quantities. Therefore, significant savings can result from a lower selling price, more favorable freight rates, and a reduction in handling costs as compared to purchasing and storing drums.
6. Formulated to remove a wide range of soils, mil oils, rust preventives and drawing compounds. Complete removal of a wide range of soils allows superior finish quality, pretreatment cost savings and minimum chemical inventory costs.
7. **Martron LT-2001** is suitable for use by spray or immersion techniques on ferrous metals in metal pretreatment and porcelain cleaning systems. This cleaner is also suitable for spray application of galvanized steel. This versatility allows minimum investment in pretreatment equipment, minimum inventory costs and convenience advantages.

SECTION 2: TYPICAL PROPERTIES

Physical form	Light, straw-colored liquid
Specific gravity AT 60°F	1.42
Pounds/gallon at 60°F	11.80

SECTION 3: TYPICAL OPERATING CONDITIONS

OPERATING CONCENTRATION RANGE, PERCENT BY VOLUME

Spray	2 - 5%
Immersion	2.0 - 30%
Operating temperature range	°F
Spray	100 - 180
Immersion	100 - 180
Operating time range:	
Spray, seconds	30 - 90
Immersion	1 - 10

SECTION 4: CONTROL

1. Add 10 ml sample of cleaner in a 250 Erlenmeyer flask.
2. Add 5-6 drops BROMOCRESOL GREEN (solution should be blue).
3. Titrate with 1.0N SULFURIC ACID until color changes to yellow (endpoint).
4. Calculate # ml. of 1.0N SULFURIC used X 8.33 = % vol.
 - a) Or take the number of drops it takes of 1.0N SULFURIC and ½ that number

SECTION 5: MAINTENANCE

Martron LT-2001 bath should be analyzed on regular bases to ensure that proper chemical balance is maintained. Since soil types and combinations plus work load requirements differ, consultation with **Martron Inc.** is recommended to determine the optimum bath maintenance schedule.

SECTION 6: CAUTION

This product contains caustic alkali which is corrosive to all human tissue. Avoid all contact with skin by wearing proper protective equipment. Consult product SDS for further information of safe handling and use of this product.

SECTION 7: DISCLAIMER

The information contained within this bulletin is based upon extensive laboratory and production use and is believed to be correct. However, **Martron Inc.** makes no warranty, implied or expressed, as to the accuracy of this data. The user assumes all risks involved with the safe handling and the use of said product.