

# ENTHONE® AF1863

## HSL Flux

### PRODUCT DESCRIPTION

HSL Flux AF1863 is a heat stable flux used in hot air leveling machines which coat printed circuit boards with solder. This formula helps the solder to wet metal surfaces rapidly and actually assists the hot air leveling process by reducing surface tension on the solder. AF1863 is water soluble, non-foaming and can easily be removed by rinsing the printed circuit boards with water.

AF1863 is low smoking and is heat stable at solder temperatures, producing a smooth bright finish with total copper edge coverage with minimum flux carbonization. AF1863 is a low corrosivity flux designed to meet the requirements of all hot air leveling equipment.

### FEATURES AND BENEFITS

HSL FLUX AF1863 gives total solder coverage on SMD Pads, is water soluble/non-foaming and has state-of-the-art blocking additives. AF1863 eliminates solder shorts, has heat sensitive active agents and reduces copper build-up in solder pot. AF1863 is heat stable, and has low surface tension which helps wetting properties. AF1863 reduces smoking, has a brilliant finish and is manufactured according to SPC.

### OPERATION

HSL FLUX AF1863 is used full strength. After flux application, solder should be applied as soon as possible.

### CHEMICAL PROPERTIES

Specific gravity @ 25°C	1.07
Pounds per gallon	8.92
Flash point	720°F
Rinsability	Complete

### PACKAGING

5 gallon containers or 55 gallon drums.

### STORAGE

Avoid open flames. Store in the sealed original container. Do not store in direct sunlight, high temperature areas or below freezing. Review this product's Material Safety Data Sheets for more information.

**ENTHONE® AF1863**  
Technical Data Sheet  
Page 2 of 3

**SAFETY**

Information on the safety, health and environmental attributes of this product is set forth in the material safety data sheet (MSDS) and on the product label. Enthone provides the MSDS and product label to customers with all samples, as well as with the initial shipment of product and whenever an update is issued. Copies of the MSDS and label are also available at any time upon request.

The safety, health and environmental information set forth in the MSDS and label should be considered in determining the appropriateness of this product for any particular application, and should be used to determine appropriate engineering controls, protective equipment, work practices, and other precautions to be observed in the use of this product in any particular process or working environment.

**DISPOSAL**

Used AF1863 may contain dissolved copper, tin and lead in unchelated forms. Dissolved metals should be removed by appropriate methods, such as precipitation with hydroxide or reduction with WT1504. After removal of metals and pH adjustments, AF1863 can be discharged to the sewer if permitted by law. Contact your Enthone Representative for specific assistance on waste treatment of spent products with WT1504.

# ENTHONE® AF1863

Technical Data Sheet

Page 3 of 3

## MATERIAL SAFETY DATA SHEETS

For more detailed information on the toxicological properties of the products described herein, reference can be made to the Material Safety Data Sheet (MSDS) for each product. If you do not have the proper MSDS, it can be requested from: Enthone Inc., attention: Regulatory Affairs Department, P.O. Box 1900, New Haven, CT 06508. For emergency assistance call CHEMTREC (800) 424-9300.

### WARRANTY AND DISCLAIMER

The information presented herein is to the best of our knowledge true and accurate and all recommendations and suggestions appearing in this bulletin covering the use of our products are based upon information believed to be reliable. However, since the conditions of use are beyond our control, this information is given on the express condition and agreement that Enthone Inc. will not be liable to any person in contract, tort (including negligence), strict liability or otherwise for any claims, damages or losses whatsoever. Nothing herein shall be deemed a recommendation to use any product or process in violation of any existing patent rights and no warranties, expressed or implied, are made regarding the information, product, processes, recommendations, description and safety notations contained herein. The above includes proprietary information of Enthone Inc. and is furnished to you for your use solely on products or processes supplied by us to you.

### Enthone-OMI (Canada) MATERIAL SAFETY DATA SHEETS

For detailed information on the toxicological properties of the products described herein, reference can be made to the Material Safety Data Sheet (MSDS) for each product. If you do not have a current MSDS, it can be requested from the W.H.M.I.S. coordinator, Enthone-OMI (Canada) Inc., 121 Watline Avenue, Mississauga, Ontario, L4Z-1P2. For emergency assistance regarding accidents with this product resulting in container rupture, spills, poisoning, bodily injury or threats to health call: CHEMTREC (800) 424-9300.

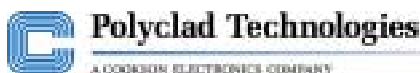
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### CUSTOMER ORDER CENTERS

UNITED STATES		(800) 496-8326 Fax (203) 933-0249
SEL-REX® Precious Metal Products	(Phone: 8AM-6PM, M-F, East Coast time) (Fax: 24 hours, 7 days)	(800) 560-7214 Fax (203) 932-8688
CANADA	Mississauga Ontario Pointe Claire, Quebec	(800) 387-3766; (905) 507-9949 Fax (905) 507-9943 (514) 426-1451 Fax (514) 426-1453
MEXICO	Mexico, DF	(011-52-5) 587-1700 Fax (011-52-5) 567-6326

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