

# ALPHA<sup>®</sup> RADSOL 2001

## Heat Exchange Manufacturing Flux

### DESCRIPTION

**ALPHA Radsol 2001** is an environmentally friendly, non-corrosive residue flux formulated primarily for Copper/Brass heat exchanger manufacture. Developed as part of the Radsol 2000 range, it is mainly used for the oven baking of heat exchanger cores.

READ ENTIRE TECHNICAL DATA SHEET BEFORE USING THIS PRODUCT

### FEATURES & BENEFITS

- High Activity – Excellent wetting and high quality joints
- Zinc Chloride Free - Ensuring inert, non-corrosive post soldering residues
- Non-Carbonizing – Will not leave solid or oily black residues.
- High Temperature Stability – Ideal with high temperature and Lead-free soft solders
- Will Not Form Stable Chelates – Spent flux or wash waters, contaminated with heavy metals from soldering, can be treated by normal neutralising effluent disposal plants without risk of chelate complexing (guarantees complete removal of heavy metals from properly treated effluent liquors).
- High Dilution – Cost effective

### APPLICATION GUIDELINES

Suitable for use with conventional or lead free soldering on Copper and Copper alloy components, primarily radiator cores. Dilution with water is recommended for most baking applications, up to 1:10 or 1:20, depending on product and process. As a general rule, the lowest strength flux mixture compatible with satisfactory bonding should be the target. Application by total immersion is recommended, with an immersion time of about one minute. It is important to remove excess flux before the core is placed in the oven.

**TECHNICAL DATA**

Item	Typical Values	Item	Typical Values
Appearance	Clear, colorless to pale yellow liquid	Shelf Life (from Date of Mfg.)	1.5 Years
Specific Gravity @ 20 °C	1.188	Flash Point	Not Applicable
pH, 100% w/w conc.	< 2.00	Boiling Point	100 °C
Odor	Slightly Acrid	Packaging Size	25, 200, 1000 Liters

**SAFETY & WARNING**

It is recommended that the company/operator read and review the Safety Data Sheets for the appropriate health and safety warnings before use. **Safety Data Sheets are available at [MacDermidAlpha.com/assembly-solutions/knowledge-base](http://MacDermidAlpha.com/assembly-solutions/knowledge-base)**

**CONTACT INFORMATION**

**To confirm this document is the most recent version, please contact  
 Assembly@MacDermidAlpha.com  
[www.macdermidalpha.com](http://www.macdermidalpha.com)**

<p><b>North America</b>                  109 Corporate Blvd.                  South Plainfield, NJ 07080, USA                  800.367.5460</p>	<p><b>Europe</b>                  Unit 2, Genesis Business Park                  Albert Drive                  Woking, Surrey, GU21 5RW, UK                  01483.758400</p>	<p><b>Asia</b>                  8/F., Paul Y. Centre                  51 Hung To Road                  Kwun Tong, Kowloon, Hong Kong                  852.3190.3100</p>
---	---	---

Also read carefully warning and safety information on the Safety Data Sheet. This data sheet contains technical information required for safe and economical operation of this product. READ IT THOROUGHLY PRIOR TO PRODUCT USE . Emergency safety directory assistance: US 1 202 464 2554, Europe + 44 1235 239 670, Asia + 65 3158 1074, Brazil 0800 707 7022 and 0800 172 020, Mexico 01800 002 1400 and (55) 5559 1588

DISCLAIMER: All statements, technical information and recommendations contained herein are based on tests we believe to be reliable, but the accuracy or completeness thereof is not guaranteed. No statement or recommendation shall constitute a representation unless set forth in an agreement signed by officers of seller and manufacturer. NO WARRANTY OF MERCHANTABILITY, WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY IS MADE. The following warranty is made in lieu of such warranties and all other warranties, express, implied, or statutory. Products are warranted to be free from defects in material and workmanship at the time sold. The sole obligation of seller and manufacturer under this warranty shall be to replace any noncompliant product at the time sold. Under no circumstances shall manufacturer or seller be liable for any loss, damage or expense, direct, indirect, incidental or consequential, arising out of the inability to use the product. Notwithstanding the foregoing, if products are supplied in response to a customer request that specifies operating parameters beyond those stated above, or if products are used under conditions exceeding said parameters, the customer by acceptance or use thereof assumes all risk of product failure and of all direct, indirect, incidental and consequential damages that may result from use of the products under such conditions, and agrees to exonerate, indemnify, defend and hold harmless MacDermid, Incorporated and its affiliates therefrom. No suggestion for product use nor anything contained herein shall be construed as a recommendation to use any product in a manner that infringes any patent or other intellectual property rights, and seller and manufacturer assume no responsibility or liability for any such infringement.

© 2019 MacDermid, Inc. and its group of companies. All rights reserved. "(R)" and "TM" are registered trademarks or trademarks of MacDermid, Inc. and its group of companies in the United States and/or other countries.