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## **CONFIDENTIAL TECHNICAL DOCUEMNT**

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## ***MIRACHEM 500 Cleaner / Degreaser vs. MIRACHEM 100 Cleaner / Degreaser***

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In 1990, MIRACHEM introduced a new cleaner/degreaser product called MIRACHEM 500. This product was created to be the next generation of MIRACHEM cleaning technology, incorporating the latest technological developments and experience available since the company's inception in 1978.

Intended to eventually replace the venerable MIRACHEM 100, the company's flagship product prior to the introduction of MIRACHEM 500, MIRACHEM 500 offered the superior cleaning performance expected from the MIRACHEM brand, but with additional regulatory, material compatibility and worker safety benefits.

The fundamental difference between MIRACHEM 500 and MIRACHEM 100 is in the replacement of MIRACHEM 100's original hydrocarbon package in favor of our advanced "unlocking" formulation that we call **MMET**<sup>™</sup>, or *Multi-Micro Emulsifacant Technology*. The **MMET** technology effectively breaks the bond between soil and substrate, allowing normally non-water-soluble materials to become emulsified in an aqueous solution. Effectively, **MMET** gives ordinary water the ability to become the ultimate cleaning agent.

MIRACHEM 500 also offered users increased flexibility in the applications and environments where the product could be used. Because of MIRACHEM 100's hydrocarbon package, there were instances, such as near welding equipment, where the product could not be used. MIRACHEM 500's newer technology also allowed the product to be made available at a more competitive price point than its predecessor.

Since its introduction, MIRACHEM 500 has successfully replaced MIRACHEM 100 in over 98% of the applications where customers had previously used MIRACHEM 100. While some cases have been found in which MIRACHEM 100 demonstrates superior overall performance versus MIRACHEM 500, these users were still able to utilize MIRACHEM 500 without a net loss of efficiency because of MIRACHEM 500's increased cost effectiveness, compatibility standards and flexibility.

In 1998, following a 6-year trend in declining demand for MIRACHEM 100 and overwhelming support for the MIRACHEM 500 product, the company made the decision to retire MIRACHEM 100 Cleaner / Degreaser. In June of 1999, the last containers of MIRACHEM 100 were sold into the marketplace, marking the end of an era for The MIRACHEM Corporation, but also representing our continuing commitment to innovation in the cleaning products industry.

We encourage all former MIRACHEM 100 users to try MIRACHEM 500 and see its benefits first hand. We are eager to help any of customers who may need assistance in converting from MIRACHEM 100 to MIRACHEM 500.