

# Mirachem 2793

## Data Sheet

[Mirachem® 2793 Dicing Fluid](#) is an advanced aqueous technology for use as a surfactant additive in wafer dicing and other sawing and singulation applications, as well as other high-tech grinding, lapping and coating processes. Specifically engineered to improve process and product quality via the water stream, the Mirachem 2790 Series Products provide effective surface cleaning and removal of substrate debris and other foreign matter from the workspace, increased lubricity for better cuts and reduced chipping, cleaner bond pads and pre-deposition / pre-coating surfaces for fewer rejects, and decreased resistivity in DI water for reduced ESD and corrosion concerns.

|                                   |  |
|-----------------------------------|--|
| <b>Environmental Safety</b>       | Designed with the environment in mind, and engineered to meet current and future environmental regulations, including REACH initiatives.     |
| <b>Worker Safety</b>              | Non-Hazardous and Non-Flammable, requires no GHS warnings or PPE.  |
| <b>Material Compatibility</b>     | Safe to use on virtually any substrate material.   |
| <b>Product Performance</b>        | Engineered using Experimental Design methodology, and proven in over three years of production in industry-leading manufacturing operations. |
| <b>Advanced Technical Support</b> | Supported by Mirachem's in-house experts with almost 40 years worth of aqueous technology experience.  |

### Industries & Manufacturing Applications Include:

- Semiconductor / wafer dicing
- Electronics / MEMS manufacturing
- Optics / blank manufacturing
- Optics / coating and thin-film deposition
- Optics / colorant application and polishing
- Photonics / singulation

### Material Compatibility:

- Silicon and other semiconductor / chip fabrication materials, including Germanium, Gallium Arsenide, and other Silicon on insulator materials
- Glass, Polycarbonate, Zinc compounds, and other optics substrates

## Material Compatibility:

| Method                          | Dilution | Concentration | Temperature |
|---------------------------------|----------|---------------|-------------|
| Dicing Saw                      | 5000:1   | 0.02%         | Ambient     |
| Computer Controlled Singulation | 5000:1   | 0.02%         | Ambient     |
| Soak / Dip Tank                 | 5000:1   | 0.02%         | Ambient     |
| Hand Wipe                       | 5000:1   | 0.02%         | Ambient     |

## Availability:

- 4 gallon case, 5 gallon pail, 55 gallon drum, 275 gallon tote

## Technical Details:

- VOC
  - Undiluted 0 g/l (0 lb./gal)
- pH
  - Undiluted 6.9-7.5
  - 500:1 5.5-7.0
- Flash point Non-flammable
- Resistivity < 1.00 μ-ohm/cm
- Shelf life The shelf life of unopened containers is 36 months from the date on the package.

## Additional Resources:

- Product Webpage [Mirachem.com/2793](http://Mirachem.com/2793)
- SDS - Concentrate [b.Mirachem.com/2793-101](http://b.Mirachem.com/2793-101)
- SDS - Use Dilution [b.Mirachem.com/2793-103](http://b.Mirachem.com/2793-103)



## About Mirachem:

Mirachem, a Heritage-Crystal Clean company, is an ISO 9001:2008 certified manufacturer and marketer of water-based cleaning solutions, providing advanced aqueous technologies to the industrial marketplace for nearly 40 years. Mirachem offers alternatives to traditional cleaning chemistries in a variety of industries and applications, with an emphasis on worker and environmental safety, material compatibility, and superior service and support.

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