

# THE MAGBAG INNOVATION

## Removing Water from Dry Solutions – Safely and Quickly



Bridging the gap between research, commercialisation, and investors.



### INTRODUCTION

Researchers at Mipos Pty Ltd have developed a technology to revolutionize the dehydration step, the time of which has been reduced to less than three minutes.

The Magbag™ is a device and method, for the safe and rapid removal of water from non-aqueous liquids, by the use of a desiccant held inside a porous container. Having potential applications in fields such as; synthetic chemistry, petroleum dehydration and industrial chemical processing.”



In laboratory environments an integral step of most reactions is the dehydration of the non-polar solvent after aqueous work-up, which ‘wets’ the solvent. The dehydration step is usually performed by the addition of a drying agent such as magnesium sulphate. Following agitation, the hydrophilic agent absorbs all the water, including large droplets, fine emulsions and dissolved water. Removal of the loose powder requires filtration, performed using either a specific funnel incorporating a porous sieve or filter paper. Both the sieve and filter paper need to be rinsed with non-polar solvent to ensure maximum recovery of the compound being synthesized. This process can take in excess of 15 minutes, but only 2-3 minutes using the MagBag™ technology.

### THE ISSUES

Current Lab Dehydration Process are:

- Time consuming
- Prone to human error
- Prone to contamination
- Can be dangerous
- Can be messy

### THE MAGBAG SOLUTION

A New Dehydration Process which:

- Saves time & money
- Improves accuracy
- Improves convenience
- Reduces human error
- Improves OH&S for handling of laboratory solutions – reduces handling of volatile solutions

*Magbag™ enables the rapid removal of water from “dry” solutions using a convenient method which is much quicker and safer than existing methods.*



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### COMPETITIVE ADVANTAGE

- Achieved test market sales
- A disposable laboratory device
- Cost effective to manufacture
- Quick and simple to use
- Removes the danger associated with handling hazardous solutions
- Improved methodology to current laboratory practices
- Meets industry and gold standard laboratory practices

### TARGET INDUSTRIES

- Teaching and research laboratories
- Chemical manufacturers
- Petroleum companies involved in fuel production
- Manufacturers of solvents and paints

### INTELLECTUAL PROPERTY

The technology has an IP priority date of 28th June 2004 and is granted in Australia and is pending in the USA.

### OPPORTUNITY

An early model of the device has been manufactured and achieved test sales in Ireland and Australia. A licensing opportunity exists for the co-development of this technology by a company capable of undertaking the manufacturing and distribution required to deliver this product to market.

### ABOUT TM VENTURES AND THE AUSTRALIAN RESEARCH NETWORK

From the Black Box Flight Recorder to Google Maps, Australia's innovation system is transforming the world we live in. CSL's anti-cancer vaccine (Gardasil), Biota's flu treatment (Relenza) and Cochlear's Bionic Ear are but a handful of medical technologies that were born of Aussie talent.

The Australian Research Network is a boutique consulting and business development company focused on emerging Australian innovation. The Network is committed to maximizing the value of technologies for both our domestic and international clients and if your company is considering Australian investment opportunities, contact us.

### FOR FURTHER INFORMATION:

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