

## ART CONSERVATION & RESTORATION

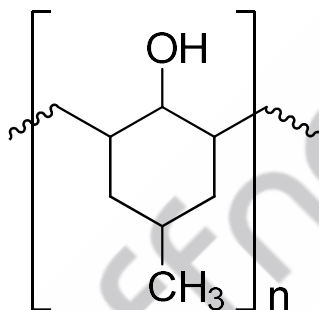
### MS3 – A MUSEUM GRADE VARNISH RESIN

MS3 is a speciality resin uniquely developed for conservation and cultural heritage applications. Employing sustainable state-of-the-art production technology, Boron Molecular has developed a next-generation painting varnish that has been engineered to carefully replicate the chemistry of MS2A.

For decades, low molecular weight synthetic resins have been used to replace natural resin painting varnishes such as dammar and mastic, which discolour and cross-link due to oxidation. MS2A was originally developed in the 1950s and supplies have gradually depleted since production ceased in 2014. It is preferred by many conservation professionals because of its handling, appearance, longevity and reversibility.

The need for new high quality resin for the art conservation and restoration professionals is clear and Boron Molecular has developed this next generation resin in conjunction with one of Australia's leading public art galleries and CSIRO.

Advances in production have created a product with improved colour, chemical stability, and consistency between batches. The resin, named MS3, is a superior, high-performing successor to the original resin and is now commercially available.



#### SPECIFICATIONS

<b>Description</b>	Poly(methyl-cyclohexanol) oligomer
<b>Molecular Weight</b>	Mn 520 - 680
<b>Acid Number</b>	<2 mg KOH/g
<b>Hydroxyl Number (uncorrected)</b>	>190 mg KOH/g
<b>Colour</b>	Low colour varnish film
<b>Processability</b>	Soluble – petroleum hydrocarbons, turpentine, isopropanol Insoluble – water
<b>Production</b>	Continuous production with consistent performance