

# Ammonium Sulphate

Similar to: *Liase*<sup>®</sup> and various spray grade AMS products

Active constituent	Ammonium Sulphate			Formulation	Pure Crystalline Chemical
Adjuvant group	Water conditioner				
Typical pack size	25 kg				
Poison schedule –	Dangerous goods class –	UN –	Packing code –		
Usage	<p>Ammonium Sulphate bagged product provides the following activity:</p> <p><b>Water softener:</b> overcomes the effect of hard water (&gt;200ppm calcium carbonate) on salt-based herbicide formulations (e.g. Glyphosate 450, 470 &amp; 540 and Amine Phenoxy), and can reduce physical incompatibilities of certain products (e.g. Glyphosate and dry flowable or suspension concentrate products, e.g. Atrazine and Simazine).</p> <p><b>Adjuvant:</b> improves plant uptake of certain chemicals (e.g. Glyphosate).</p>				
Compatibility	<p>Most products.</p> <p><b>Care:</b> In-crop use with selective herbicides may cause crop damage.</p>				
Water quality	Will not substantially alter water pH—a suitable buffering agent (e.g. Farmpro 700 or Citric Acid) may be necessary to achieve required pH.				
Situation	Purpose	Rate	Comments		
Hard water, tank-mix compatibility issues and stressed/difficult to control target plants	Reduction of hard water effects, overcoming multiple product physical incompatibilities and improved product uptake/efficacy	1 kg/100L total spray volume	Glyphosate efficacy can be improved on perennial grasses (e.g. couch).		
<p><b>Comments</b></p> <ul style="list-style-type: none"> <li>• Commonly used with Glyphosate and in tank mixes.</li> <li>• Ammonium Sulphate can overcome antagonism of tank-mix partners such as Atrazine, Diuron, Simazine and Trifluralin, and minimise bicarbonate impact on DIM herbicide efficacy.</li> <li>• Generally used at 1% (1 kg/100L), however can be increased as requirements dictate (e.g. very hard water or highly stressed weeds in difficult conditions, e.g. 2–5% ammonium sulphate with Glufosinate for summer weeds).</li> <li>• Solid ammonium sulphate is usually much better value than liquid alternatives.</li> </ul>					

