



# GENIE<sup>®</sup> DYNAMIC

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**Genie<sup>®</sup> Dynamic contains organic acids to enhance plant nutrient uptake without depleting soil biology and is specifically formulated to add to fertilizer for this purpose.**



## UNDERSTANDING THE GENIE<sup>®</sup> CONCEPT

The **Genie<sup>®</sup>** product range offers a unique solution to improve productivity on low organic soils, targeting overall soil health. Products in the range have the ability to stimulate soil biology by creating an environment conducive for beneficial aerobic microorganisms. The soil buffering capacity is also enhanced, increasing its ability to absorb and release nutrients thereby promoting nutrient uptake and utilisation by the plant.

Products in the range include:

-  **Genie<sup>®</sup> Boost**
-  **Genie<sup>®</sup> Dynamic**
-  **Genie<sup>®</sup> Ful**
-  **Genie<sup>®</sup> Hume**
-  **Genie<sup>®</sup> Marine**





## GENIE® DYNAMIC

Genie® Dynamic contains humate compounds to improve the efficiency of macro element fertilisers through the buffering of cations and anions in the soil making it less susceptible to volatilisation and losses due to leaching.

Once the nutrients are organically chelated in the soil, Genie® Dynamic stimulates microbial activity in the rhizosphere allowing mineralisation of these chelated ions to be recycled and released over a longer period for crop uptake.

Whether coated onto fertilisers such as urea or co-applied as a liquid with UAN or anhydrous ammonia, Genie® Dynamic works in harmony with the soil biology, not against it.

## BENEFITS OF GENIE® DYNAMIC

- Enhances the soil buffering capacity, increasing the ability to absorb and release nutrients
- Improves the stability of nitrogen breakdown products after application in the soil, including  $\text{NH}_4^+$  and  $\text{NO}_3^{2-}$  ions making it less susceptible to losses
- Enhances plant cell wall permeability of nutrients by complexing it with organic molecules
- Stimulates beneficial soil biology, especially in low organic soils
- Improves the penetration of nutrients into the soil structure
- Provide a carbon source for micro-organisms.

## USES OF GENIE® DYNAMIC

- Coated onto NPK fertilisers containing  $\text{K}_2\text{SO}_4$ , Urea, DAP (i.e. non-acidic fertilisers)
- Soil applied and in conjunction with anhydrous ammonia at point of application
- Can be used for leaching of salts after drought periods.

## APPLICATION RATES#

Mode of application	Application rate	Dilution rate
Soil application	8 - 20 ℓ/ha	Dilute with 60 - 100 ℓ of water/ha
Irrigation water	12 - 20 ℓ/ha on every 3 <sup>rd</sup> irrigation under harvest	
Liquid fertiliser	Add to mix tank at 3% of total nutrient weight and dilute with water or compatible liquid	
Anhydrous ammonia* or aqueous ammonia	Cold flow application at 3% total nutrient weight	
Coating of dry fertilisers	Use 2ℓ Genie Dynamic for every 100kg of alkaline fertilizer used such as ANO, AN19, Urea, DAP.	

#Apply through boom spray, aerial or overhead irrigation. DO NOT APPLY when conditions are extremely hot. Best applied when temperatures are between 5 to 25°C.

\*Application does require some minor modification to application equipment. Contact your nearest agent for advice.

## MIXING INSTRUCTIONS

1. Half fill tank to required volume with water
2. Add required amount of Genie® Dynamic
3. Fill the remainder of tank with water and maintain agitation.

## COMPATIBILITY

This product may be compatible with herbicides and insecticides. Please check with the manufacturer of these products. Please be aware that physical compatibility does not necessarily guarantee product efficacy.

## PRODUCT SPECIFICATION

Nitrogen (N)	7 g/kg	7.7 g/ℓ
Potassium (K)	25 g/kg	27.5 g/ℓ
Humic acid	168 g/kg	184.8 g/ℓ

Product pH: 9.5 - 10.5  
SG 1.1 @ 20°C

# COMPATIBILITY CHART

	Rappid®	Rappid® K	Genie® Boost	Genie® Dynamic	Genie® Ful	Genie® Marine	Genie® Hume	EcoKsil	Dekompakt®	Qwemikelp™	Fruitboost phase® 1	Fruitboost Phase® 2	Maxiboost®	Alexin®	BZM	BZM Super	Calcium Nitrate	Magnesium Nitrate
Rappid®	Compatible																	
Rappid® K	Compatible	Compatible																
Genie® Boost	Compatible	Compatible	Compatible															
Genie® Dynamic	Compatible	Compatible	Compatible	Compatible														
Genie® Ful	Compatible	Compatible	Compatible	Compatible	Compatible													
Genie® Marine	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible												
Genie® Hume	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible											
EcoKsil	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible										
Dekompakt®	InCompatible	InCompatible	Compatible	InCompatible	Compatible	Compatible	Compatible	Compatible	Compatible									
Qwemikelp™	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	InCompatible	Compatible	Compatible								
Fruitboost phase® 1	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible							
Fruitboost phase® 2	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible						
Maxiboost®	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	InCompatible	Compatible	Compatible	Compatible	Compatible	Compatible					
Alexin®	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	InCompatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible				
BZM	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible			
BZM Super	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible		
Calcium Nitrate	InCompatible	InCompatible	Compatible	InCompatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible
Magnesium Nitrate	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible

Not done
  Compatible
  InCompatible
  Only compatible at low application rate

Please be aware that physical compatibility does not necessarily guarantee product efficacy.  
 \* The mixture must be stirred vigorously for thorough mixing.

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