



**TECHNOTE**

SACOA

# ENHANCE BROADCAST



## PRODUCT OVERVIEW

ENHANCE® is a premium crop oil concentrate developed through extensive research to improve the activity of a wide range of herbicides, fungicides and insecticides. It is an emulsifiable spray oil designed specifically to improve wetting and spreading properties of applied active ingredients.

ENHANCE® is developed and manufactured locally by Australia's specialist adjuvant company SACOA. With a formulation consisting of highly refined paraffinic oil ENHANCE® is placed at the forefront of spray adjuvant technology providing equivalent weed control to other commonly used spray oils.

## THE ISSUE

Getting the best out of your active ingredients is crucial when spraying in broadcast crops. Effective weed control relies on correct selection, rate and application of herbicides. Spraying under 'ideal conditions' when crops and weeds are at correct growth stages, plants are stress free and weather conditions are suitable can be challenging at the best of times.

Cold or hard water can cause mixing issues with some actives. ENHANCE® is formulated specifically to reduce such issues. Droplet bounce, poor surface contact between active ingredient activity and leaf and low droplet survival on leaves can also reduce herbicide activity.

## THE SOLUTION

ENHANCE® provides improved weed control and cost-effectiveness of the spray application through:

- Facilitating improved penetration of active ingredients by modifying target surface characteristics.
- Improved spreading of active ingredient to the target plant by reducing surface tension of spray droplets.
- Minimising any inadvertent losses due to spray drift and/or evaporation.
- Offering improved solution stability under low water rates.
- Reducing cold or hard water compatibility issues.
- Reducing the potential clogging or blockage of spray nozzles.

## CROP SAFETY

ENHANCE® is registered for use with an extensive range of active ingredients in a wide range of crop types including cereals, legumes and canola.

SACOA have an ongoing field and laboratory research program that assesses the efficacy and safety of ENHANCE® when mixed with new and existing active ingredients present in the market. ENHANCE® has been proven to provide similar levels of crop safety when compared to other commonly used spray oils.

Always follow directions for use on ENHANCE® and active ingredient labels. Under difficult conditions such as cold superscript (<15°C), moisture stress or when tank mixing multiple actives it is critical to follow correct mixing order procedures (refer SACOA mixing procedure technote). Always follow directions for use on active ingredient label.

**SACOA - Australia's Specialist Adjuvant Company**

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## PRODUCT EFFICACY

ENHANCE® is supported by over a decade of independent field trials and an ongoing research program continues to assess its performance and develop new uses. ENHANCE® when mixed with various herbicides at 0.5% v/v has proven to be statistically equivalent in performance when compared to other commonly used spray oils such as Uptake® (refer chart 1)

## USER GUIDE

ENHANCE® is generally used at a rate between 0.5-1L/100L as directed on active ingredient labels. However, rate recommendations will vary according to:

- The specific type of active ingredient(s).
- The prevailing weather and crop conditions.
- Weed load at the time of spraying.

Please read ENHANCE® and active ingredient label for specified application details.

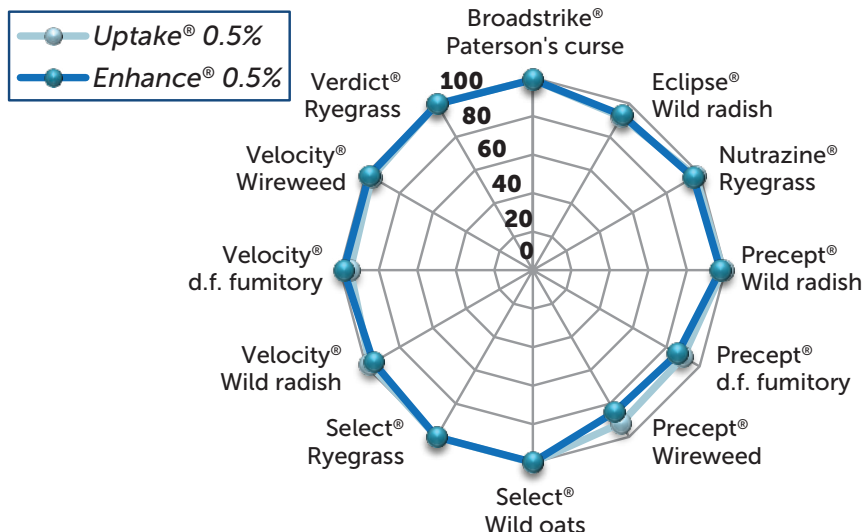


Chart 1. Weed control (%) with ENHANCE® & Uptake® mixed with various herbicides. Independent trial data 2000-2011 WA, NSW, SA, (Agriseach, Agritech & Kalyx)

## PRODUCT COMPATIBILITY

ENHANCE® is recommended for multi-component tank mixes such as atrazine, clethodim and high loaded quizalofop and is formulated to be effective in cold water situations. It is suitable for use with hard to disperse wettable granules (WGs) and dry flowables (DFs) when correct mixing procedure is followed.

ENHANCE® is suitable for use with all products which state on their label that they are to be mixed with a crop oil or crop oil concentrate, including the 'Fop', 'Dim' and 'Den' grass herbicides. Examples are listed below:

PRODUCT	%v/v	PRODUCT	%v/v
Achieve®WG	0.5	Intervix®	0.5
Aramo®	0.5	Mataven®90	0.5
Broadstrike®	0.5	Midas®	0.5
Axial®	0.5	Monza®	0.5
Cadence®WG	0.5	Nutrazine®900 DF	0.5-1.0
Cheetah®Gold	0.5	Precept®300 EC	0.5
Conclude®	0.5	Sharpen®	0.5
Decision®	0.5	Starane Advanced®	0.5
Eclipse®100 SC	0.5	Status®/Select®	0.5
Factor®WG	0.5	Targa®	0.5
Fusion®Super WG	0.5	Topik® 240 EC	0.5
Garlon®600	0.5	Torpedo®	0.5
Gesaprim®600 SC	0.5	Valor® 500 WG	0.5
Grazon®Extra	0.5	Velocity®	0.5
Hammer® 400EC	0.5	Verdict® 520	0.5

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