

PRODUCT INFO SHEET



● PRODUCT OVERVIEW

SACOA's SE14™ is a unique formulation of novel surfactants and retention agents which hold moisture and nutrients in the seeding furrow. SE14™ improves early seedling emergence and vigour, particularly in non-wetting soils and/or dry seeding situations by attracting and retaining moisture around the seed when banded with water and/or UAN at the time of seeding. SE14™ slows the effect of water's natural vertical movement while promoting lateral spread within the furrow.

● PRODUCT POSITIONING

Recent changes in rainfall patterns have seen a shift towards dry seeding. Autumn seeding breaks now consist of multiple small rainfall events rather than larger one-off rainfalls. As a result – patchy and variable emergence has become common, particularly on moisture challenged soils. A key research focus for SACOA has been overcoming these issues to enable early and even crop establishment. SE14 was designed and trialled to be applied using existing liquid injection equipment. SE14™ is compatible with a range of other in-furrow liquids such as UAN, in-furrow fungicides, trace elements and insecticides. SE14™ has a low per hectare use rate which can be tailored for soil type – making it a cost-effective crop establishment tool.

● PRODUCT FEATURES AND BENEFITS

SE14™'s unique formulation will increase the soil moisture holding capacity around the germinating seed, resulting in earlier and more even crop establishment. Over the past six years of in-field research and commercial use – the following agronomic benefits of SE14™ have been well proven;

- Crop establishment increases on a broad range of soil types
- Improved early crop vigour and reduction in soil borne disease
- Increased soil moisture in the seed furrow
- Activation of pre-emergent herbicides resulting in better weed control
- Nodulation improvement in pulses
- Significant yield increases from replicated field trials and commercial grower use across a range of crops – cereals, canola, lupins, vetch, sorghum, canola.

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● PRODUCT PERFORMANCE

Since 2014, SACOA has conducted a large number of independent small plot replicated and large scale demonstration trials with SE14™ in Western Australia, South Australia, the Victorian Mallee and the Darling Downs. These trials have consistently demonstrated SE14™ will increase plant numbers and seedling vigour on a range of soil types in cereals, canola, pulses, cotton & sorghum.

● PRODUCT COMPATIBILITY

SE14™ in-furrow moisture retainer has been tested for physical compatibility with liquid UAN and some banded fungicides. Physical compatibility should always be confirmed with a jar test prior to mixing larger volumes. Successful compatibility tests have been carried out with the following products;

1. UAN
2. Optima Calsap®
3. StrataSol® (Cu)
4. YaraVita® Twin Zinc (Zn)
5. EverGol® Prime
6. Optima® PK
7. Impact® (250g/L Flutriafol)
8. Verno Micronutrients (Zn, Cu & Mn)

● MIXING GUIDE

PRE DILUTION

SE14™ has the potential to be slow and/or difficult to pump due to its viscosity.

Pumping this product may become quite problematic when the temperature of SE14™ falls below 15°C.

This can be overcome by pre-diluting with water at a ratio of 1:1. The ideal temperature of SE14™ when pumping is 20°C - 25°C. Once diluted with water the mixture can be stored for up to 4 weeks with minimal separation expected. Liquid UAN and/or trace elements should only be added immediately prior to use.

Agitation after prolonged storage is recommended.

MIXING PROCEDURE FOR OPTIMUM RESULTS

1. Add water or UAN to the mixing tank to allow proper agitation by pump or paddles
2. Slowly add the required amount of SE14™ under agitation (do not exceed a ratio of 1:1)
3. Maintain agitation until solution is thoroughly mixed
4. Agitation is not required once SE14™ is dispersed in the solution
5. If adding trace elements continual agitation may be required



CRITICAL INFORMATION USER GUIDE

It is recommended SE14™ be combined at a ratio 1:1 with water first then added to the liquid UAN or trace elements. It is extremely important to ALWAYS add SE14™ to water NOT water to SE14™ as the mixture can become very viscous if incorrectly mixed. Should this happen please contact the supplier for assistance as it can usually be rectified.

SE14™ should be applied as close to the seed as possible in a continuous liquid stream.

Keep total liquid volumes high (at least 50L/Ha particularly on sandy soils).

PRODUCT TYPE

Soil Surfactant

ACTIVE INGREDIENTS

Polyethylene Glycol / Ethoxylated Alcohol

USE RATE

SE14™ use rates can be determined by soil type along with tyne spacing. Lighter soils, specifically light sands require the higher use rate while soils with a higher gravel content can show good responses at lower rates.

PACK SIZES AVAILABLE

20 L
200 L
1000 L