Dead Sure®/AITTJ60 Drift Reduction System (DRS).

AITTJ60s have dual air-induction tips with 110° flat fan spray patterns. There is a 60° angle between leading and trailing spray patterns. They are best suited to postemergence applications requiring a combination of coverage, penetration and minimal spray drift.

Dead Sure® reduces the droplet fines markedly from this low drift nozzle with a range of fallow tank mixes. In addition, the Dead Sure/AITTJ60 DRS enhances both grass and broadleaf weed control with glyphosate alone or glyphosate plus 2,4-D in the same mixture.

**Drift Risk of fallow herbicide mixtures depends on % Driftable Fines.**

Reducing the driftable fine droplets formed is a key aspect of controlling chemical spray drift. The physical weight of droplets greater than 150μm diameter means they will not stray far from their original trajectory.

**Figure 1: % Driftable Fines - AITTJ60 nozzle at 5 bar**

The Dead Sure/AITTJ60 DRS produces no more than 5% of driftable fines with a range of fallow herbicide mixtures.

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**Key:**
- Am625 = Amicide 625
- Am700 = Amicide 700 at 815mL/ha
- RuAtk = Roundup Attack at 1300mL/ha
- RuCT = Roundup CT at 1L/ha
- Ru DST = Dual Salt Roundup at 2L/ha
- AS = Liaise ammonium sulphate at 2% v/v
- SP = Surpass 300 at 2400mL/ha
- Dead Sure at 0.5% v/v
- Water volume = 50L/ha

For more information contact Caltex Precision Spray Oils™: David Johnson, 0401 140 536 or www.precisionsprayoils.com.au
Drift Potential

The drift potential of sprays is very strongly correlated with the proportion of fine droplets in a spray. The USA’s Spray Drift Task Force atomization data for thousands of droplet size measurements and a large number of field drift studies forming the heart of the AgDRIFT™ model have been analyzed\(^1\) to produce the following equation:

\[
\text{Drift Potential} = 0.00126534 + 0.000074433 \, Dv^{0.1} - 0.00000337 \, Dv^{0.5} - 0.0000186 \, Dv^{0.9} + 0.3397122 \\
\text{[equation 1]} \]

When the relevant spray quality data are substituted into this equation, a relative drift potential value is generated.

Results (See figure above)

- The Dead Sure/AITTJ60 DRS reduces the drift potential by at least half with most mixtures compared to just using the AITTJ60 nozzle as the only DRT.

Enhanced Weed Control

The Dead Sure/AITTJ60 DRS:

- gives excellent efficacy enhancement of the herbicides tested across a range of weed types despite producing very few fine droplets
- is best used at 0.375-0.50% v/v for optimum herbicide enhancement.

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