

# Nouryon

## Adsee® 611



Agricultural solutions



Adsee 611 is designed specifically for mixing with crop protection products in the immediately prior to spraying. It is important to add Adsee 611 after the crop protection product to avoid possible compatibility problems.

The next-generation amine technology adjuvant for tankside crop protection applications

## What is Adsee 611?

- Adsee 611 is Nouryon's next generation Adsee AB adjuvant
- An adjuvant designed to exceed performance of alcohol ethoxylate and NPE
- A highly optimized blend of a fatty amine polymer with a quaternary compound

## Why use Adsee 611?

- Effective with herbicide, fungicide and insecticide applications
- Adsee 611 replaces and outperforms alcohol ethoxylates and NPE competitive products at the same use level
- Excellent as a tankside adjuvant in rice production
- Cost effective

## Typical physical properties

Property	Value
Appearance	Amber liquid
pH (5% in water)	6-7
Flash point (PMCC)	>200 °F
Moisture	1.0% max
Specific gravity @ 77 °F	0.976



Nilaparvata lugens

Recommended use rate is 0,1% (100 ml Adsee 611 to 100 l water). The adjuvant is low viscous liquid and mixes easily with water at normal temperature. It performs equally well in soft and hard water.

# Insecticide studies

## Pymetrozine

25% WP on brown plant hopper

Treatment	LC <sub>90</sub> (mg/L)	LC <sub>90</sub> reduction
Pymetrozine (alone)	232.2	N/A
Adsee 611 (0.1% v/v)	142.3	38%
Nonylphenol 10EO (0.1% v/v)	209.9	9%

Summary Pymetrozine on brown plant hopper

- Adsee 611 was significantly improved over NP-10 in glasshouse using particulate formulation



Cnaphalocrocis medinalis

## Abamectin

1.8% EC on rice leaf roller

Treatment	LC <sub>50</sub> (mg/L)	LC <sub>90</sub> reduction
Abamectin (alone)	0.124	0.47
Adsee 611 (0.1% v/v)	0.096	0.44
Nonylphenol 10EO (0.1% v/v)	0.093	0.57

Abamectin on rice leaf roller

- Adsee 611 was improved over NP-10 in glasshouse using EC formulation



Pyricularia oryzae



# Fungicide studies

## Tricyclazole

5% EC on rice blast

Treatment	EC <sub>50</sub> (mg/L)
Tricyclazole (alone)	18.3
Adsee 611 (0.1% v/v)	16.9

Summary Tricyclazole on rice blast

- Adsee 611 and NP-10 were comparable in glasshouse using particulate formulations
- Adsee 611 significantly improves efficacy of Tricyclazole

## Azoxystrobin

5% EC on rice sheath blight

Treatment	LC <sub>50</sub> (mg/L)
Azoxystrobin (alone)	24.8
Adsee 611 (0.1% v/v)	18.7

Summary Azoxystrobin on rice sheath blight

- Adsee 611 and NP-10 were comparable in glasshouse using particulate formulations
- Adsee 611 significantly improves efficacy of Azoxystrobin



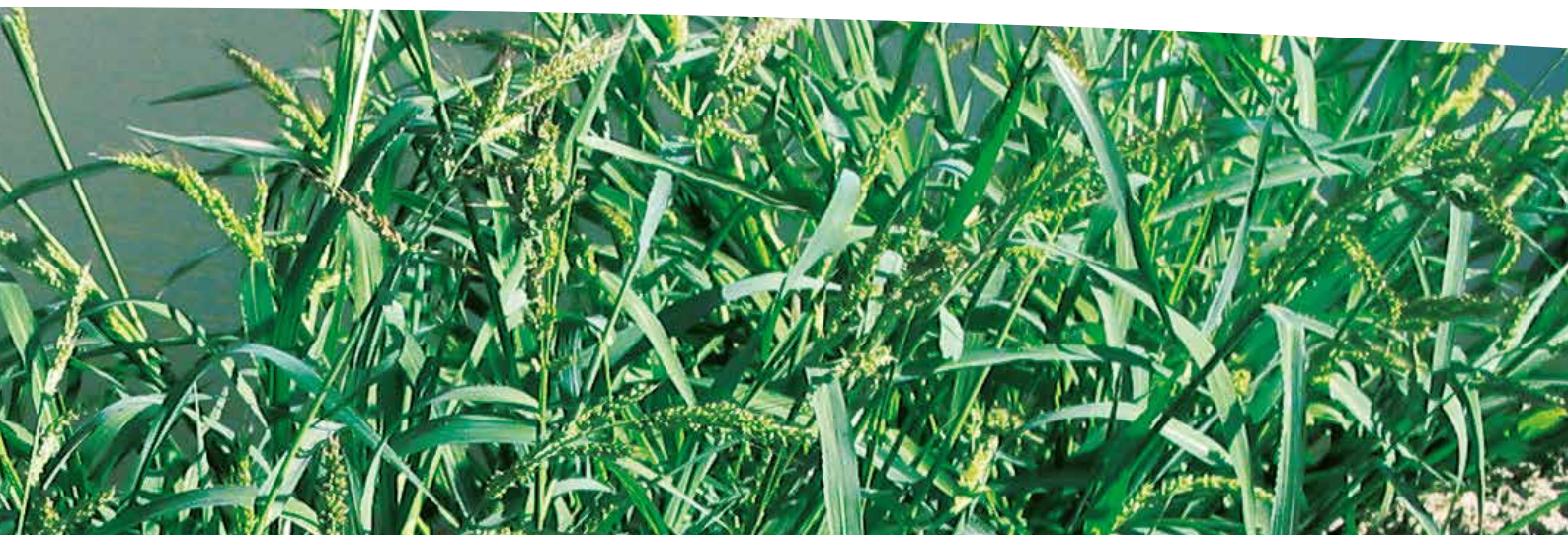
Rhizoctonia solani

## Use recommendations

- Adsee 611 is designed specifically for mixing with crop protection products in the immediately prior to spraying. It is important to add Adsee 611 after the crop protection product to avoid possible compatibility problems.
- Recommended use rate is 0,1% (100 ml Adsee 611 to 100 l water). The adjuvant is low viscous liquid and mixes easily with water at normal temperature. It performs equally well in soft and hard water.
- Due to its cationic character, Adsee 611 can form precipitates with anionic components in the tank.

### EPA listed

Ingredients in Adsee 611 adjuvant are listed under 40 CFR 180.920. Adsee 611 adjuvant is a new option to replace NPE's or alcohol ethoxylate adjuvants

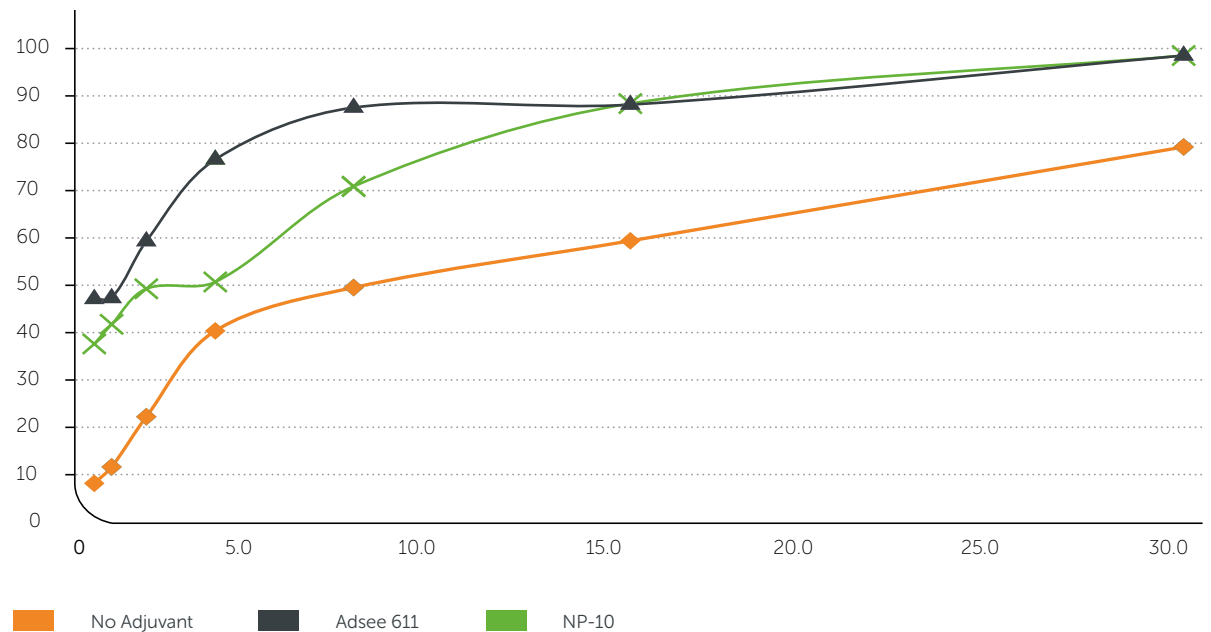


# Herbicide studies

## Bispyribac-Na on Barnyardgrass

The Bispyribac -sodium herbicidal activity treatments on Barnyardgrass have obvious adjuvant synergies. Adsee 611 is slightly higher than the other two additives; however, there was no statically significant difference between adjuvants in this small study.

### Percent weed control (fresh wt basis) at 20DAT vs. g ai/ha (adjuvant at 0.1% v/v)



### Barnyardgrass rate response

Dose G ai/ha	No Adjuvant	Adsee 525	Adsee 611	NP-10
0.47	8.28	25.99	47.81	38.71
0.94	11.90	31.68	48.01	42.38
1.88	22.56	44.23	60.19	49.99
3.75	40.97	79.88	77.71	51.46
7.50	50.26	84.33	88.84	71.94
15.00	60.27	85.13	89.47	89.70
30.00	80.40	100.00	100.00	100.00

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