

APSA

All Purpose Spray Adjuvant

The Hard Worker



WHAT IS SPRAY ADJUVANT?

A spray adjuvant is a substance added to agricultural sprays that helps improve the performance of the main ingredient. Spray adjuvants are often added to pesticide mixes to improve the performance of the pesticide.

Why Use a Spray Adjuvant?

When spraying pesticides or herbicides, waxy plant leaves and other environmental conditions can reduce the performance of your spray. Waxy leaves create surface tension causing water to bead into droplets, limiting spray penetration and spreadability. Adding a spray adjuvant to the pesticide or herbicide spray mix reduces surface tension on plant leaves, promoting a more uniform spray deposit thus improving coverage and penetration.

Compacted or hard to wet soils make it harder for water to penetrate the surface, causing wasted evaporation and run-off, limiting the effectiveness of your work. A spray adjuvant reduces surface tension in these soils. Using a spray adjuvant when irrigating promotes faster more even soil penetration, reducing water evaporation and run-off.

Fig. 1



APSA Solution
(at 0.3% dilution)

Plain Water

How Does it Work?

Water (H₂O) is a polar molecule; it has both positive and negative ends. When these ends link, a chain forms, droplets occur – this is called Hydrogen Bonding and is the cause of surface tension. Surface tension is evident when placed on a waxy or water repellent surface like a plant leaf. The water is not soluble in wax and remains on the leaf surface. The water molecules form chains, beading into tiny droplets.

Surfactants overcome this problem by reducing the contact angle of droplets (spreading), reducing surface tension and improving surface penetration. Surfactants are the active agents of a spray adjuvant.

The surfactant is a molecule that has both water-soluble and wax/oil soluble ends. When a surfactant is added to spray solutions it pulls both water and wax surfaces together, reducing beading and surface tension. This action is evident through the spreading of droplets on the leaf surface.

Amway All Purpose Spray Adjuvant contains non-ionic surfactants that act to reduce surface tension and improve wetting.



WHERE DO I USE SPRAY ADJUVANT?

Spray adjuvants are useful in many situations where you need a better performance from your spray, for example:

- Soil Conditioning
- Herbicide Application
- Fungicide Application
- Insecticide Application
- Golf Courses/Sporting Clubs

Amway APSA:

- Is non-corrosive
- Does not require safety handling equipment
- Promotes faster soil penetration
- Biodegradable
- Helps keep your equipment clean
- Helps maximize pesticide performance
- And helps control dry spot on lawns



YOU SHOULD USE APSA...

To Help Maximise Weed Control:

By providing a more uniform spray deposit on plants, APSA improves the coverage and effectiveness of herbicides fungicides and insecticide sprays.

Its thorough wetting action helps to improve the performance of post-emergent pesticides.

Improved pesticide activation increases rain-fastness, reducing the threat of run-off and costly reapplication.

Follow the directions on the herbicide label, and only use a spray adjuvant when this is indicated on the herbicide label.





To Control Dry Spot on Golf Courses and Lawns:

Just as APSA improves the performance of pesticides on crops and water penetration in soil, APSA can help control various problems on golf courses and lawns. Applied to areas affected by dry spot, APSA helps by promoting even soil moisture penetration and more efficient moisture retention. For best results, treat early in the season and reapply monthly if needed.

For Hard-to-Wet Soils:

APSA improves water penetration, getting more water into the soil. It helps condition soil by reducing compaction and other inhibitors to effective irrigation.

More efficient water usage through reduced evaporation and run off, saves you water.

To Reduce Separation in the Tank:

Adding APSA to spray solutions containing wettable powders and other concentrates helps keep pesticides dispersed and reduces separation. APSA reduces clogged nozzles, deposited build-ups and other problems that may hamper equipment performance. Furthermore, keeping pesticides in solution helps keep the solution uniform, ensuring that the pesticide is applied evenly across the whole application – reducing potential damage caused by over/under application.

To Improve Equipment Performance:

Amway All Purpose Spray Adjuvant is made with a unique, non-corrosive formula that protects metal pumps, tanks and other spray equipment from rust and corrosion. Because APSA helps keep pesticides dispersed in solution and does not leave deposits of its own, sprays nozzles and equipment are kept free of blockages.

Reducing nozzle blockages and other spray equipment problems minimizes the risk of exposure to poisonous mixtures out in the field, improves confidence in spray coverage and helps improve farming efficiency. Improved equipment performance also reduces costly downtime for repair and maintenance – saving you time and money.



Product Composition

Character:	Light yellow, clear liquid
Formulation:	Aqueous solution of non-ionic surfactants
Biodegradability:	Complies with the Australian standards for biodegradability
pH:	10.0
Sizes:	200L and 25L containers



DIRECTIONS FOR USE

Before mixing, read all pesticide labels for specific mixing instructions and caution statements. To avoid potential crop damage, use at recommended dilution rates.

- 1 Following the pesticide manufacturer's instructions, add the proper amount of water to the spray tank and turn on the agitator or recirculation pump.
- 2 Add recommended amount of Amway All-Purpose Spray Adjuvant to the water and allow to mix thoroughly.
- 3 Add the pesticide according to the manufactures instructions.



Application	Quantity to add to spray	Dilution rate
Herbicides*	250 - 1000ml per 100L water	0.25% - 1.0%
Fungicides/insecticides	125ml per 100L water	0.125%
Aerial Spraying:		
Herbicides	40 - 80ml per 10L water	0.4% - 0.8%
Fungicides/insecticides	10ml per 10L water	0.1%
Control Dry Spot	255ml per at least 80L water/100m ²	0.31%
Soil Conditioning	750 - 1400ml per at least 100L water/hectare	0.75% - 1.4%
Soil Compaction	4,250 - 6,800 ml/hectare per at least 90L water	4.7% - 7.5%

*Note: Application rate will vary depending on the treatment and equipment type used.

WHAT FARMERS ARE SAYING

Col Beasley

Grape & Wheat Farmer - Sunraysia District

I've been using APSA with fungicidal and herbicidal Sprays, targeting Powdery and Downey Mildew, Spiney Burr Grass and Skeleton Weed. Unlike other wetting agents I've used, APSA is easy to apply and gives better spray results by reducing machine downtime due to clogged jets out in field. Not only does APSA work well as a spray adjuvant but I know when I need complete and even spray coverage the first time, machinery and spray jets won't be a problem.

Michael and Jenny Clark

Pastoralists - Vic

APSA has been used on my property with herbicides like MCPA 50, Garlon and Brushoff, with great effect to control thistles, blackberries, white weed and white radish. APSA works great in hard water conditions – we experience consistent 100% kills on targeted weeds. I've been using APSA for over six years and it's certainly one to recommend.

Ray Bruton

Potato grower - Trentham Vic

I've used APSA for 18 months and I know it's played a great part in increasing our crop yields, with better insect and weed control. Using APSA has all but eliminated downtime for blockages. We even have fewer maintenance problems because it works hard to keep our equipment clean.

Greg Nathan

Manager Mount Macedon Wineries - Vic

We've used APSA for 18 months and have found a real improvement in all our Pesticide, Fungicide and weed control programs. We've also noticed better leaf coverage and penetration.

Richard and Debbie Glass

Dairy Farmers - Vic

I've only been using APSA for a few months but I'm amazed at the range of applications I've found for the product. Not only is it great for herbicides and other pesticides spraying, but I also use it to keep my equipment clean. It's easy on the hands but removes mechanical grease and oil with ease. APSA is also used as a soil conditioner, working well to break heavy soils.

Maurice and Lyn Siviour

Wheat & Barley - SA

We've been using APSA in our herbicide program for nearly 12 years and I've found it provides good results, working well in all conditions. Chemical safety is a primary concern for me, mishandle some wetters and you could end up in hospital. But APSA is easy to apply and safe to use.

Phil Matthews

Mixed Crops - Sunraysia District

Crop disease is a serious threat so I pay attention to preventative spraying. Using APSA has reduced the number of preventative sprays required per season and the amount of fungicide I need to get the job done, saving me time and money. Especially in a pressure year, it's good to have confidence in a product that when you apply you know the job's been done right, first time-every time.

The Amway 90 day Satisfaction Guarantee.

**“If you're not fully satisfied with
any product you purchase
from Amway, we will happily
refund your money”***

*Conditions apply, please see order form for terms and conditions.

For more information, please contact: