



Agricultural Adjuvants

Make the right choice for
your field and your crops



120 years of legacy

Our purpose is to drive transformation and solutions.

Gulf is part of the Hinduja Group, with a presence in over 100 countries worldwide. We have been operating since 1901, with an exceptional range of high-quality products spanning from automotive, agriculture, industrial and marine.

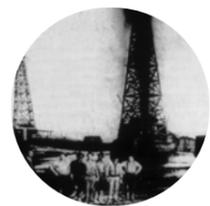
Our agricultural lubricants deliver dependable performance and value in a variety of farm equipment and machinery.

Formulated to perform in any climate or condition and designed to ensure improved operational efficiency.

To us, there's nothing as important as listening to your customers. It's about truly understanding their needs and working alongside them to meet them.

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With our constant push towards research & development, we created our commercial pesticides spray oil line for crop protection that help eliminate pests and diseases throughout the growers crop cycles. Ensuring sustainable products that aid in preserving the quality of the produce.



1901

Spindletop discovery leads the U.S. into the oil age, with Gulf Oil and Texaco corporation



1910

World's first over water drilling operation



1913

World's first drive through fuel station



1968

First LeMans 24 hours win, with Ford



1984

Hinduja Group acquired the Gulf Brand



1989

Argentina launches Argentfruit Spray Oil



2004

First oil company in history to trademark racing colours



2004

Brazil launches Gulf Spray oil



2005

Peru, Chile and Uruguay introduces Gulf Spray Oil



2008

Gulf Oil Marine launch, with global coverage of 1,000 ports



2008

Gulf Oil launches longest drain interval engine oil, India



2018

Gulf Global Technology Centre opens in Chennai, India



2021

McLaren Automotive recommends Gulf Oil



2023

Operational launch of Singapore Tuas blending plant, regional hub for Gulf Asia-Pacific Automotive sector growth



Optimise growth to maximise your yield potential

Modern technology has enabled increased crop yields. As farming becomes more competitive, there is a greater pressure to produce more.

This has led to the use of extensive agrochemical products to protect crops against pests and increase plant growth. All in an effort to improve the crop yield.

Typically, insecticides, herbicides, fungicides, and seed treatment chemicals help with the required agricultural output. However, with the rising costs of farming inputs, producers seek to maximise the agrochemical effects by using adjuvants as an alternative treatment, to protect crops much faster, cost-effectively and safely.

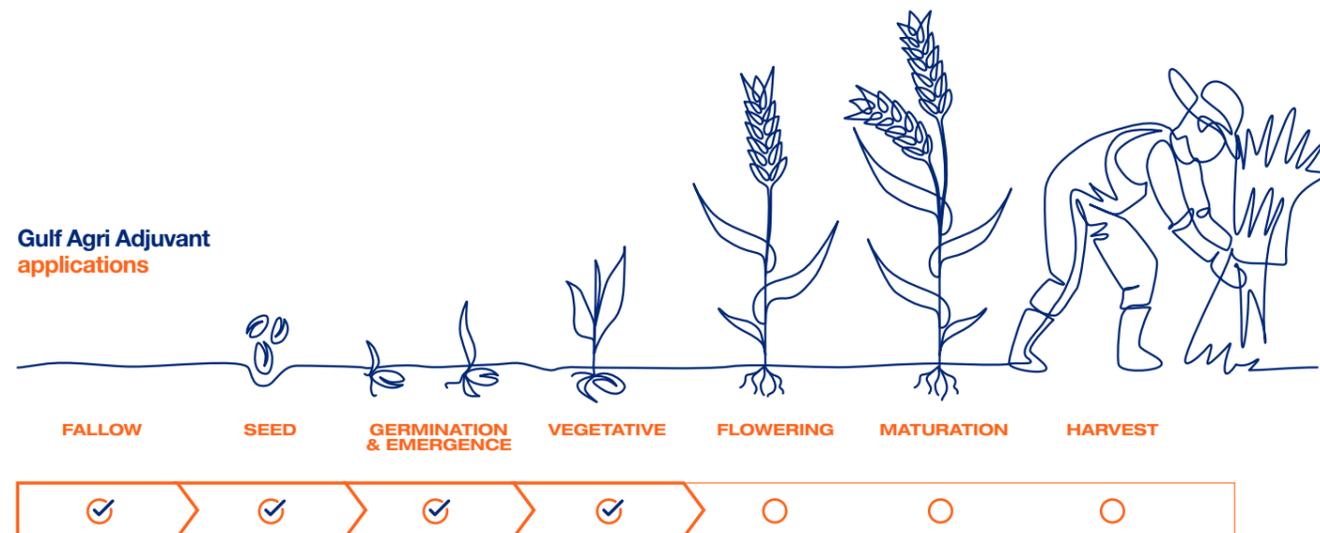


Crop protection is vital to get the most out of every yield, controlling insects, mites and certain fungi during the different stages of harvest.



Gulf Agri Adjuvants

When combined with active ingredients, Gulf Agri Adjuvants create a potent formulation that delivers highly effective pest control for a broad range of crops.



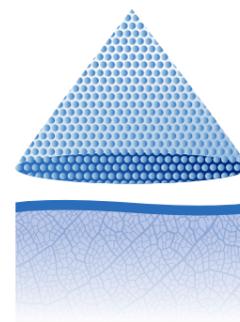
Enhance the efficacy of active ingredients, improve the overall performance of the product and allow your pesticide to go even further for greater economies of scale.

Gulf Agri Adjuvants have a highly refined mineral oil composition with low evaporation, high penetration and translocating properties.

When added to crop protection products (including acaricides, insecticides, and herbicides), they enhance the efficacy of the active ingredients to target, penetrate and protect the target plant, improving the overall performance of the agrochemical product.

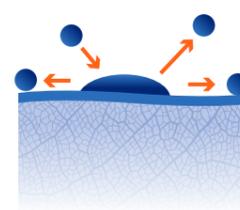
Our adjuvants ensure application efficiency during crop treatment cycles to help maximise your crop yields.

Mode of action



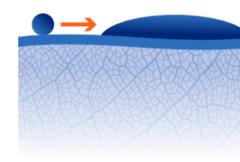
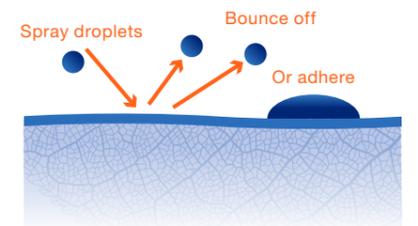
Spray formation

Adjuvants are an essential part of the delivery of active ingredients in many products. They help to optimise the performance of the agrochemical products, making them more effective and efficient throughout the application process. Adjuvant effectiveness is key to ensuring that a product performs to its full potential.



Spray retention

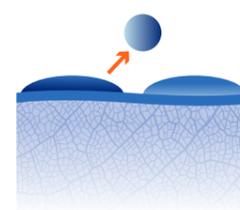
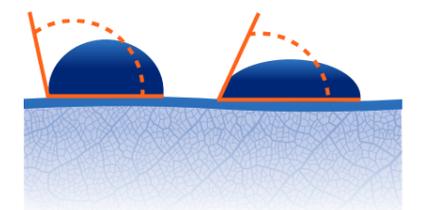
The adjuvant can be used to enhance the ability of spray droplets to remain on the surface of crops. By dissipating kinetic energy on impact, surfactants allow for better coverage of the crop with fewer droplets, reducing the surface tension and enabling less drift. This results in increased efficiency and cost savings while also reducing environmental impact.



Wetting

As an active ingredient, it helps spray droplets on wet waxy surfaces or soil substrates to ensure even distribution across the leaf or within the soil, allowing effective leaf and soil wetting as well as foliar coverage.

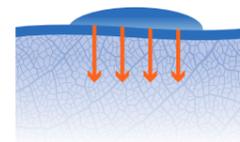
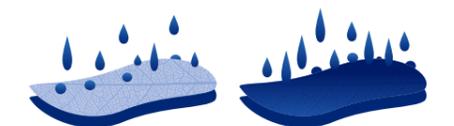
Water bead: large contact angle without addition of surfactant
Adjuvant enhanced surfactant: small contact angle



Deposit formation

The combination of an adjuvant and an insecticide is a powerful way to deliver a more uniform distribution and size of pesticide particles. It reduces the surface tension of water, allowing the insecticide to spread more evenly and penetrate deeper into plants.

Surfactants reduce the surface tension which allows flattening and spreading the drops on the leaves.



Uptake

Adjuvants also improve penetration through the leaf cuticle, increasing bioavailability of the active ingredient. It delivers effective systemic foliar uptake, and diffusion through cuticle.



Enhanced Application Efficacy
& CROP
PERFORMANCE

Gulf Agri Premium Adjuvant

Enhanced Application Efficacy & Crop Performance



Gulf Agri Premium Adjuvant is an advanced highly concentrated emulsifying formulation that offers twice the effectiveness of the pesticide. The **Dual Action Formula** forms a robust oil coating around the pesticide molecule, to protect it against rapid degradation.

In addition, Gulf Agri Premium Adjuvant helps improve the transfer of the agrochemicals active ingredients through the leaf surface to the plants interior. Increasing the uptake, resulting in greater herbicide activity on unwanted, difficult-to-penetrate weeds.

This dual protection and precision allows agrochemical operators/ farmers fewer applications during their crop cycles, resulting in enhanced crop efficacy and overall crop performance in a safer and cost-effective manner.

Non-toxic to wildlife.

Properties

It is a highly refined mineral oil, specially developed to be used as an adjuvant to help with coverage, penetration and activity of herbicides, fungicides, insecticides and foliar fertilisers.

It ensures the protection of crops in unfavourable conditions, achieves great cuticular penetration and offers optimal distribution on the leaf.

- Compatible with most commonly used liquid pesticides.

Dose

Consult label.



Gulf Agri Adjuvant

Improved Application Efficacy & Crop Performance

Gulf Agri Adjuvant, an emulsifying formulation with its **Dual Action Formula**, helps form a robust oil coating around the pesticide molecule, to prevent unwanted insects, mites and weeds from rapidly degrading the agrichemical product.

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Improved Application Efficacy & CROP PERFORMANCE





We go the extra mile, enabling agrochemical operators and farmers to enhance their crop protection for improved application efficacy and overall performance.

Together, we'll stop at nothing.

To find out more about any of our products and services, reach out to your local Gulf representative.

Email: marketing@gulfoilltd.com or visit: www.gulfoilltd.com

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