

DustStop by DepiJet®

Environmentally friendly,
Bio-Degradable,
Dust suppression.



DepiJet®

| DustStop by DepiJet® |

Natural dust solutions

Companies still struggle to find natural alternatives to use in dust suppression. This can affect health and safety, productivity, and the environment. DustStop by DepiJet® is produced from a natural renewable resource and can be used for a wide range of applications.



Natural biopolymer

DustStop by DepiJet® CAN ALSO BE FORMULATED INTO COMPATIBLE BITUMEN EMULSIONS TO PROVIDE MORE ENVIRONMENTALLY FRIENDLY SOLUTIONS.

WHAT IS DustStop by DepiJet®?

DustStop by DepiJet® is an environmentally friendly dust suppressant and surface stabiliser for unsealed (gravel) roads. DustStop by DepiJet® is produced from a natural and renewable resource.

When applied to a well-constructed, well-drained road, DustStop by DepiJet® will generally increase the longevity and reduce the maintenance cost of the road.



DepiJet®

Neutralschwebstoffe für Luft und Oberflächen

How does DustStop by DepiJet® work?

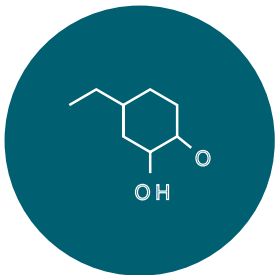
DustStop by DepiJet® acts as a surfactant and binder to ensure that unsealed (gravel) roads remain stable and dust-free.

DustStop by DepiJet® WORKS THROUGH THREE DIFFERENT ACTIONS:



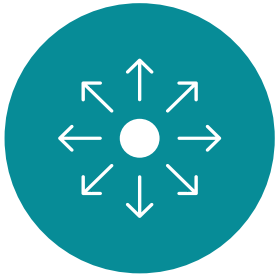
SURFACTANT

Lowers the surface tension between liquid and solid particles, acting as a wetting agent and effectively suppressing the tendency of fines to become airborne.



POLYMERIC BINDER

Acts as a natural glue to bind the fines and aggregates together, and the polymer traps moisture which retards evaporation.

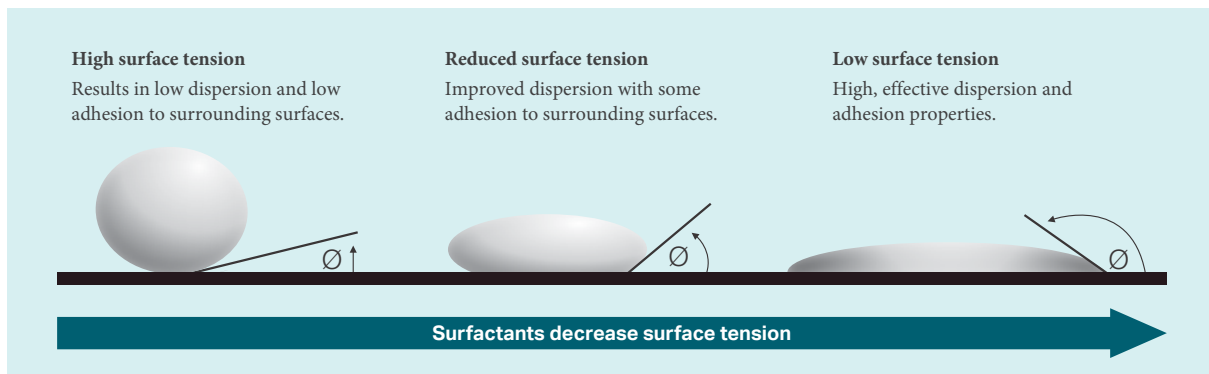


DISPERSANT

Ensures effective dispersion of clay particles in a matrix of fines, resulting in improved plasticity at lower moisture levels, and denser and firmer compaction of road surfaces.

HOW SURFACTANTS WORK

Surface tension, which describes a fluid's surface elasticity, makes a liquid shape itself to the smallest surface area possible - a sphere, the smallest possible surface area to volume ratio. The surfactant action of DustStop by DepiJet® reduces surface tension as illustrated below:



What are the benefits of using DustStop by DepiJet®?



HEALTH AND SAFETY

- Improved driving conditions (visibility and braking) for generally safer road conditions
- Reduction in occupational hazards (in particular respiratory and related diseases)
- Improved health and quality of life in rural communities



PRODUCTIVITY AND SAVINGS

- Improved haulage road turnaround times
- Reduced water usage
- Reduced road maintenance
- Reduced vehicle and tyre wear and tear



ENVIRONMENT

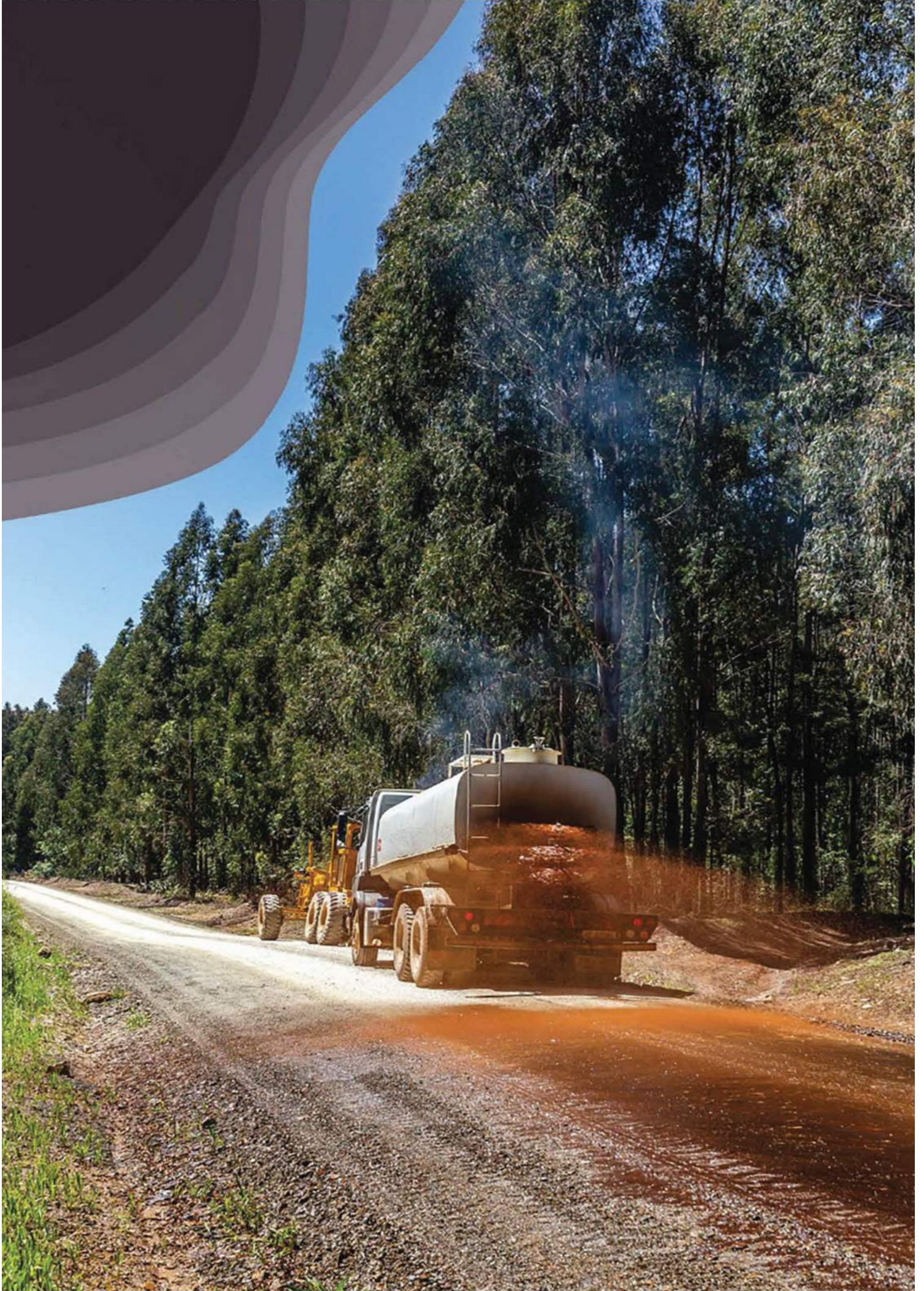
- Environmentally friendly and biodegradable
- Manufactured from a renewable resource
- Improved compliance with ambient air quality regulations



AGRICULTURE

- May increase photosynthesis and pollination, resulting in better growth yields
- Can improve efficacy of pest and disease control spray programmes, due to improved penetration of active ingredients
- Reduced levels of airborne pests, pathogens and spores in orchards and nurseries
- Reduced rejection and downgrading of fruit due to stains and marks





DustStop by DepiJet® is available in liquid and powder formats

DustStop by DepiJet® is offered in liquid form to customers who have a supply chain and product handling system designed for liquids. The product is dispatched in road tankers and flexitanks.

DustStop by DepiJet® can also be supplied as a dry product.



DustStop by DepiJet® LIQUID CAN BE PACKAGED TO MEET CUSTOMER REQUIREMENTS AS FOLLOWS:

- Flexitanks loaded into containers for export
- ISO tanks for export
- IBC containers
- Bulk road tankers

DustStop by DepiJet® POWDER IS PACKAGED IN EITHER:

- 600kg (1m³) bags with a bottom discharge chute
- 25kg bags



Industry sectors using DustStop by DepiJet®

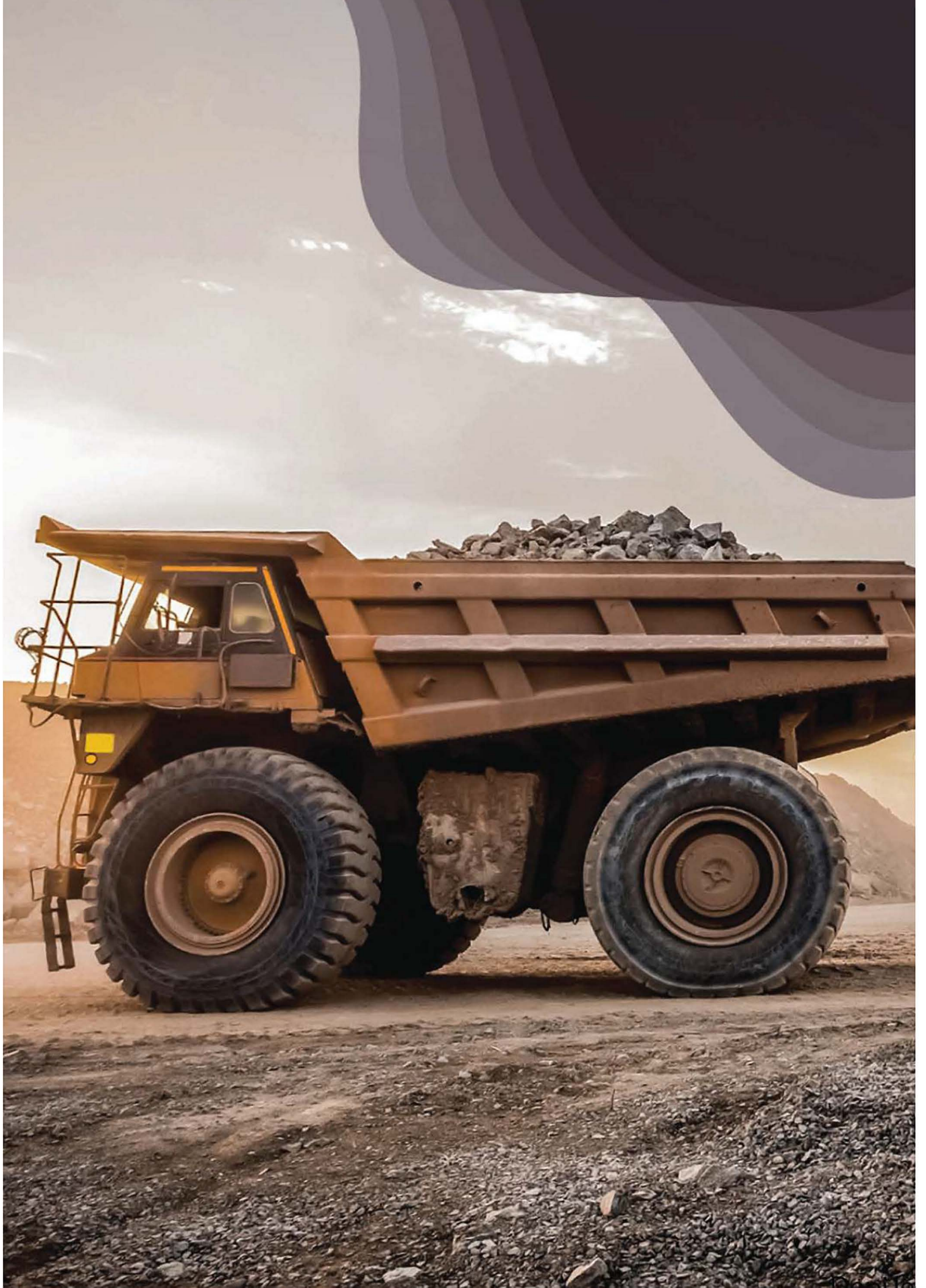
The health, safety and commercial benefits of DustStop by DepiJet® are well entrenched in the mining sector, where the nature of mining operations demand a cost-effective solution for safe and productive haulage roads, and with the operation thereof also meeting air quality standards.

Similarly, the agricultural sector, where motorised vehicle activities are responsible for excessive dust emissions, is also realising the benefits of dust mitigation programmes.

In arid climates the airborne dust in and around fruit orchards and packhouses has a negative impact on production yield and fruit quality, and often precious irrigation water is wasted on dust suppression.

The forestry sector also realises the positive impact which dust mitigation programmes have, not only on the health and safety of their employees and their propagation activities in their plant nurseries, but also on the wellbeing of adjacent communities.





How should DustStop by DepiJet® be applied?

SPRAY-ON APPLICATION

Surface treatments involve the spraying of diluted product directly onto the road surface. As a rule of thumb, less permeable soils (like clay) require DustStop by DepiJet® to be diluted down to at least 10% dry solids, whilst a solution of up to 20% can be applied to more permeable substrates.

In order to facilitate surface penetration, always apply the total volume by using multiple passes of the water bowser.

This application method produces a less permanent solution to that of the mix-in application where DustStop by DepiJet® is blended with the soil prior to compaction, but it is ideally suited when:

- Road-building equipment is not available for the mix-in application
- Maintenance of previously compacted roads need to be conducted
- A short-term dust suppression solution is required

MIX-IN APPLICATION

Blending DustStop by DepiJet® with the soil prior to compaction will provide a more permanent or longer-lasting solution compared to surface treatments.

This process is ideally suited when compaction water is substituted by a DustStop by DepiJet® mix during the re-gravelling process of unsealed road construction. Additional costs incurred will be recovered, because less frequent rejuvenation will be required and the overall improved road surface will translate into reduced vehicle operating costs.



DepiJet®

Your trusted source for Aviation Fuel and Petrochemicals



Working together for sustainable impact

We believe the best ideas and innovations spring from diverse partnerships, so we invite you to help us accelerate meaningful change.

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