

DUSTAT CASE STUDY: Bowen

Basin Tier 1 Miner

Start Date: December 2025

Problem: Blackjack cleaning for planned shovel and dragline shutdowns. Product that had been used for this application is very hazardous, highly flammable and carcinogenic.

Solution: Detar was identified and proposed as a safer alternative, being a renewable plant based product that is non flammable and non carcinogenic with no environmental impact.

Summary: All data sheets including SDS were provided and uploaded into the miners system and the appropriate risk assessment was conducted and the chemical was approved for site use.

20L sample was provided by Hammersley for trial through the nominated distributor. This coincided with a scheduled shovel shutdown at a Bowen Basin open cut mine.

A side by side trial was conducted against the incumbent product and the results were recorded that the Detar performed as well or better than the more dangerous incumbent chemical.

Other positives identified were that this product required less risk assessment, less PPE and due to the much lower risk, created a significantly safer working environment, while providing important time savings on critical works.

Implementation: It was decided that moving forward Detar would replace the incumbent chemical for all future shutdowns with the tier 1 miner.

Proceeding the trial, two shutdowns were conducted by the miner on a shovel and dragline at different Bowen Basin mine sites, where the Detar product was used throughout with great success.

Some further comments from users of the products included that it did not give off the strong petroleum fuming that was associated with the previous product and therefore was a lot nicer to work with.

