

### Product Description

Micronised Mineral Australia's (MMS) Enviro-Catalyst, is a high quality calcium oxide based product designed for use in Water Treatment applications. Enviro Catalyst is specially manufactured to enable direct application to acidic water resources, such as legacy mine pits and runoff dams, removing the need for costly mixing and batch treatment infrastructure. Enviro-Catalyst provides a key benefit by removing the slaking process typically required by other pH adjusting reagents, offering a significant cost reduction in large scale water treatment projects.

### What is Enviro-Catalyst?

MMS Enviro-Catalyst is a fine ground mineral blend formulated to precipitate dissolved heavy metals and raise the pH level in large water catchments. The fine ground blended product is produced locally at the MMS facility in East Arm, Darwin from local and imported materials, and achieves an average particle size of approx. 100 micron.

MMS Enviro-Catalyst is dosed into water catchments, such as mine pits containing AMD, or runoff dams, via a mixing system, such as the MMS Micro Reactor. The Micro Reactor works as a high-shear mixer to blend the dry product with water from the catchment to achieve homogenous mixture before being dosed into the water catchment in-situ. MMS Enviro-Catalyst can be pumped through mixing equipment directly from pneumatic containers, such as: road tankers, ISO containers, and mobile silos. Treatment with MMS Enviro-Catalyst can remove up to 90% of metals from water bodies, allowing safe discharge into natural waterways.

### Product handling & Storage

MMS Enviro-Catalyst is classified as a fine grain material suited to pneumatic and mechanical conveying systems. Store in a cool, dry, well ventilated area, removed from water or moisture, incompatible substances and foodstuffs. Ensure packages or storage tanks are adequately labelled, protected from physical damage and sealed when not in use. Avoid inhalation and ensure to use the product in well ventilated areas. Where an inhalation risk exists, mechanical extraction ventilation is recommended. Maintain dust levels below the recommended exposure standard.

### Packaging options:

- 1200 kgs Bulker Bags
- Road Tankers
- ISO Containers

### Safety Information

Personnel should wear protective clothing, dust-proof goggles, preferably faceshield, PVC or rubber gloves and impervious boots. While using large quantities, wear coveralls. Care should be taken to protect the product from moisture as it swells when moist and may burst containers. For full information, refer to the Safety Data Sheet for Quicklime.

PROPERTIES		TYPICAL
CaO Content	AS2350.2 XRF	65% Min
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MAGNESIUM OXIDE	XRF	1.5% Max
SILICON DIOXIDE	XRF	1.0% Max
ALUMINIUM OXIDE	XRF	0.5% Max
IRON OXIDE (Fe <sub>2</sub> O <sub>3</sub> )	XRF	0.1% Max
Kg / Ha coverage	-	20 - 100
Mean Avg particle size	-	100µm Approx.

### Contact points:

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PHYSICAL PROPERTIES	
Grain size <100µm	>95%
Effective Neutralising Value	100% Min
pH in slurry (AS4489-1997)	12 pH Min

#### Disclaimer

Users of any information, or any product referred to (in this product data sheet) must: determine themselves whether the information or product is suitable for their intended use; monitor/control any risks associated with the information or product; and seek professional advice in relation to the use of this product. Failure to do so may result in unwanted results or may cause serious damage or injury.

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