

Micronised Mineral Solutions Pty Ltd (MMS) Enviro Catalyst, is a specially manufactured high quality calcium oxide product ground to a fine grain size. Enviro Catalyst is manufactured to enable direct application to acidic water with no slaking requirement. Enviro Catalyst has significant water treatment, pH buffering and soil stabilisation capabilities.

**ENVIRO CATALYST** is a specially formulated, locally manufactured product with unique features:

- Direct Application to acidic water
- High pH capability (pH 12 in slurry)
- Enviro Cat is safer to handle compared to other products commonly used for acid water treatment
- Contains CaO levels equivalent to low grade Quicklime or Hydrated Lime.

Physical Properties	Typical	Range
Grain Size (<100µm)	>95% passing	90-100%
Surface Area	930 m <sup>2</sup>	900-1000 m <sup>2</sup>
Bulk Density	900 kg/m <sup>3</sup>	850-1000 kg/m <sup>3</sup>

## 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.

PROPERTIES	METHOD	ECAT TYPICAL	ECAT RANGE
CaO Available	AS4489-1997	70%	65 - 72%
ENV*	AS4489-1997	104.5%	100% Min
SiO <sub>2</sub>	XRF	1.0%	1.0% Max
Al <sub>2</sub> O <sub>3</sub>	XRF	0.5%	0.5% Max
Fe <sub>2</sub> O <sub>3</sub>	XRF	0.1%	0.1% Max
MgO	XRF	1.5%	1.5% Max
SO <sub>3</sub>	XRF	0.19%	0.19% Max
pH in slurry	AS4489-1997	12.4	12 Min

## PRODUCT SAFETY INFORMATION

Personnel should wear protective clothing, dust-proof goggles, preferably faceshield, PVC or rubber gloves and impervious boots. While using in 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 Enviro Catalyst.

## COMPANY INFORMATION

Micronised Mineral Solutions Pty Ltd (MMS) was incorporated in 2007 to provide a comprehensive suite of industrial minerals to the gas & oil, mining and agricultural sectors of Northern Australia. A local Northern Territory company that prides itself on a whole of service approach offering product development, in house and independent laboratory testing, engineering and construction of water discharge systems. Strategically located in East Arm Port and Darwin Rail districts, the company has grown to a position of strength and has a dedicated industrial milling operation with annual capacity of up to 100,000 tonnes production. Proud owners of Mineral deposits located throughout the NT containing Calcium Carbonate and Barium Sulphate.

## SPECIALISED SERVICES

- ♦ pH Management and Control
- ♦ High Effective Neutralisation Value product for acidic soils and acidic water
- ♦ Specialised Soil Stabilisation products
- ♦ Drilling products for Oil & Gas Industry
- ♦ Supply of Quicklime to industries
- ♦ Liquid Fertilisers

