



Micronised Mineral Solutions (MMS) has developed an innovative process to decontaminate acid mine drainage / mine waters caused by mining processes enabling its safe discharge into the environment.

MMS Enviro Catalyst is a specially manufactured patented reagent developed by MMS for treatment of acid mine water. It is a high-quality calcium oxide product ground to a fine grain size. It is combined with the patented Micro Reactor technology to process stored acid mine water. This process precipitates out the key dissolved metals and reduces sulphate levels to enable efficient, low dilution rate and safe release of the treated water into the environment. Unlike other similar processes, the MMS process does not require additional fresh water to ensure the success of the process.

MMS Enviro Catalyst is manufactured to enable the direct application to acidic water removing the requirement for batch slaking processes. The product has significant water treatment, pH buffering and soil stabilisation capabilities. The product has many similar properties to Hydrated Lime without the significant associated costs.

Potential Usage

- Acid Water Treatment
- Acid Sulphate Soil Treatment
- Soil Stabilisation

Packaging options: Bulk Tankers & 500 - 1200 kgs Bulker Bags

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.

PRODUCT SAFETY INFORMATION

Personnel should wear protective clothing, dust-proof goggles, preferably face shield, 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.

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

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

