

**1. PRODUCT IDENTIFICATION:
PRODUCT USE:**

TERRAMEND®
Bioremediation Product

MANUFACTURER:
Adventus Americas Inc.
2871 W. Forest Rd, Suite 2
Freeport, IL
61032

EMERGENCY PHONE:
Office Hours: 815-235-3503
After Hours: 630-309-1175

TRANSPORTATION OF DANGEROUS GOOD CLASSIFICATION:
Not Regulated

2. INGREDIENTS

CHEMICAL NAME:	CAS#	TLV(mg/m3)	LD50(mg/Kg)	% in Product
Zeolite (Sodium, Calcium Aluminosilicate, hydrated)	12173-10-3	0.5	none listed	48 - 55
Ammonium Phosphate, Monobasic	7722-76-1	10	> 2,000 (rat)	22 - 30
Magnesium Sulfate	7487-88-9	none listed	none listed	22 - 30

3. PHYSICAL DATA

Physical state.....	Solid	Freezing/Melting point.....	N/A
Odour threshold.....	N/A	Boiling point.....	N/A
Density.....	0.89 Kg/L	Vapour pressure.....	N/A
pH.....	4.3	Vapour density (air=1).....	N/A
Evaporation rate.....	N/A		
Solubility in water.....	soluble and insoluble components		
Appearance & odour.....	Light Tan Powder, Odourless		

4. FIRE AND EXPLOSION HAZARD DATA

GENERAL INFORMATION:
TERRAMEND is not flammable however when strongly heated it may decompose and give off ammonia.

EXTINGUISHING MEDIA:
Chemical type foam, CO2 (carbon dioxide), dry chemical, water fog.

FLASH POINT: N/A

EXPLOSION LIMITS: LOWER UPPER
N/A N/A

AUTO IGNITION TEMP: N/A

5. REACTIVITY DATA

STABILITY (NORMAL COND.):

Stable: X **Unstable:**

CONDITIONS TO AVOID: Welding or hot work on equipment or plant which may have contained this product should not be done without first washing thoroughly to remove all material.

INCOMPATIBILITY (Materials to Avoid):	Alkalis, strong acids, copper and its alloys.
HAZARDOUS DECOMPOSITION PRODUCTS:	Ammonia is released upon reaction with strong bases or from thermal decomposition. Oxides of sulfur possible.

6. TOXICOLOGICAL PROPERTIES

Summary: This product contains crystalline silica. Long-term inhalation of crystalline silica dusts may cause lung disease (silicosis). IARC, a unit of the World Health Organization, has stated, "there is limited evidence for the carcinogenicity of crystalline silica to humans. NTP and/or OSHA have not classified this product as a carcinogen.

Medical Conditions that may be Aggravated	Pre-existing upper respiratory irritation and lung disease
Target Organs	Lungs
Primary Entry Route	Inhalation
Acute Health Effects	Transitory upper respiratory irritant
Chronic Health Effects	Long-term inhalation of dust levels in excess of the PEL may cause lung disease (silicosis)
Eye Contact	Temporary irritation and/or inflammation
Skin Contact/Absorption	Not applicable
Inhalation	Coughing and/or irritation of nose and throat
Ingestion	Abdominal pain, diarrhea, CNS depression, hypocalcemia possible.
HMIS Rating	1

7. PREVENTIVE MEASURES

ENGINEERING CONTROLS:

Use adequate ventilation to keep airborne concentrations low.

PERSONAL PROTECTIVE EQUIPMENT:

EYES:	Protective eye glasses or goggles
SKIN:	Appropriate gloves to prevent skin exposure
CLOTHING:	Appropriate clothing to prevent skin exposure
RESPIRATORS:	Follow OSHA respirator regulations found in 29 CFR 1910.134. Always use NIOSH or European Standard EN 149 approved respirator when necessary.

SPILL AND LEAK PROCEDURES:

Clean up spills immediately observing precautions in the personal protective equipment section. Sweep up or absorb material, then place into suitable clean, dry, closed container for disposal. Avoid generating dusty conditions. Provide ventilation.

WASTE DISPOSAL:

Observe all Federal, State and Local regulations when storing and disposing of substance.

HANDLING PROCEDURES:

Use with adequate ventilation.

STORAGE REQUIREMENTS:

Keep dry

8. FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting upper and lower lids. Get medical aid.

SKIN: Wash skin thoroughly with soap and water.

INGESTION: Do not induce vomiting. Drink large amounts of water to dilute stomach contents. Get medical attention if large amount is ingested (small children, more than 50 g).

INHALATION: Remove from source of exposure to dusts. Obtain medical attention if effects occur. Persons who have inhaled decomposition gases (e.g. in a fire) should obtain immediate medical attention.

NOTES TO PHYSICIAN: IV administration of calcium gluconate will partially reverse the effects of acute magnesium toxicity. Ventricular support with calcium chloride infusion and mannitol forced diuresis has also been successful.

9. TRANSPORT INFORMATION

Not regulated as a hazardous material under IMO, IATA, RID/ADR. No information available under US DOT or Canadian TOG.

10. OTHER INFORMATION

None

11. PREPARATION INFORMATION

Prepared By:

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Definitions:

N/A – Not Available