

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

TERRAMEND® 5005
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

WHMIS CLASSIFICATION:
Not Controlled

CONTAINMENT HAZARD:
Any vessel that contains wet TERRAMEND or TERRAMEND and water must be vented due to potential pressure build up from fermentation gasses.

2. INGREDIENTS

CHEMICAL NAME:	CAS#	TLV(mg/m3)	LD50(mg/Kg)	% in Product
Ammonium Phosphate, Monobasic	7722-76-1	none listed	5,750 (rat)	25 - 40
Magnesium Sulfate (anhydrous)	7757-79-1	none listed	none listed	25 - 35
Potassium Nitrate	7487-88-9	none listed	3,750 (rat)	22 - 28

3. PHYSICAL DATA

Physical state.....	Solid	Freezing/Melting point.....	N/A
Odour threshold.....	odourless	Boiling point.....	400 C
Vapour pressure.....	N/A	Density.....	0.99 g/ml
Vapour density (air=1).....	N/A	pH.....	3.10
Evaporation rate.....	N/A	Solubility in water.....	soluble
Colour.....	white		

4. FIRE AND EXPLOSION HAZARD DATA

GENERAL INFORMATION:

Contains oxidizing compound (Potassium Nitrate 33% by weight, all other ingredients noncombustible). During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Wear appropriate protective clothing to prevent contact with skin and eyes. Wear a self-contained breathing apparatus to prevent contact with thermal decomposition products. May accelerate burning if involved in a fire.

EXTINGUISHING MEDIA:

Cool containers with flooding quantities of water until well after fire is out. For small fires do not use dry chemicals, carbon dioxide, halon or foams. USE WATER ONLY. For large fires flood fire with water from a distance.

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: Dust generation, excess heat.

INCOMPATIBILITY (Materials to Avoid): Strong bases, sodium hypochlorite, aluminum, titanium, antimony, germanium, zinc, zirconium, calcium disilicide, chromium nitride, metal sulfides, boron, carbon, sulfur, phosphorus, phosphides, sodium phosphinated, sodium thiosulfate, citric acid, tin chloride, sodium acetate, thorium carbide.

HAZARDOUS DECOMPOSITION PRODUCTS: Nitrogen oxides, oxygen, oxides of phosphorus, ammonia, sulfur oxides.

6. TOXICOLOGICAL PROPERTIES

Overview: May cause eye, skin and respiratory tract irritation.

Potential Health Effects:

Eye: causes mild eye irritation

Skin: causes slight skin irritation

Ingestion: may cause gastrointestinal irritation with nausea, vomiting and diarrhea

Inhalation: may cause respiratory tract irritation

Chronic: prolonged or repeated skin contact may cause dermatitis

7. FIRST AID

Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 mins. Get medical aid.

Skin: In case of contact, flush skin with plenty of water. Remove contaminated clothing and shoes.

Ingestion: If swallowed, do not induce vomiting unless directed to do so by medical personnel.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

8. 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

Any vessel that contains wet TERRAMEND or TERRAMEND and water must be vented due to potential pressure build up from fermentation gasses.

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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Mississauga, Ontario
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Definitions:

N/A – Not Available