

# SAFETY DATA SHEET TERRAMEND INORGANIC

SDS # : TERAIC  
Revision date: 2016-02-03  
Format: NA  
Version 1.01



## 1. PRODUCT AND COMPANY IDENTIFICATION

### Product Identifier

**Product Name** TERRAMEND INORGANIC

### Other means of identification

**Synonyms** Calcium carbonate: Carbonic acid, calcium salt (1:1); Precipitated chalk; Monoammonium phosphate: Ammonium phosphate, monobasic; Phosphoric acid, monoammonium salt; Ammonium dihydrogen phosphate; Ammonium monobasic phosphate; Ammonium phosphate; Dihydrogen ammonium phosphate; Monoammonium acid phosphate; Monoammonium dihydrogen phosphate; Monoammonium dihydrogen phosphate; Monoammonium orthophosphate; Ammonium dihydrogen orthophosphate

**Alternate Commercial Name** TERRAMEND INORGANIC M1, TERRAMEND INORGANIC M2

### Recommended use of the chemical and restrictions on use

**Recommended Use:** Bioremediation product for the remediation of contaminated soil and groundwater.

**Restrictions on Use:** Not for drinking water purification treatment.

### Manufacturer/Supplier

PeroxyChem LLC  
2005 Market Street  
Suite 3200  
Philadelphia, PA 19103  
Phone: +1 267/ 422-2400 (General Information)  
E-Mail: sdsinfo@peroxychem.com

### Emergency telephone number

For leak, fire, spill or accident emergencies, call:  
1 800 / 424 9300 (CHEMTREC - U.S.A.)  
1 703 / 527 3887 (CHEMTREC - Collect - All Other Countries)  
1 303/ 389-1409 (Medical - U.S. - Call Collect)

## 2. HAZARDS IDENTIFICATION

### Classification

#### **OSHA Regulatory Status**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

### GHS Label elements, including precautionary statements

## EMERGENCY OVERVIEW

Not classified

**Hazards not otherwise classified (HNOC)**

No hazards not otherwise classified were identified.

**Other Information**

CONTAINMENT HAZARD: Any vessel that contains wet TERRAMEND must be vented due to potential pressure build up from fermentation gases. Bulk TERRAMEND packages must be kept dry to avoid risk of spontaneous combustion common to many bulk organic materials.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical name	CAS-No	Weight %
Monoammonium phosphate	7722-76-1	40-60
Calcium carbonate	471-34-1	20-30
Organic Amendment	Proprietary	15-25
Lecithin	8002-43-5	2

Synonyms are provided in Section 1.

**4. FIRST AID MEASURES**

<b>Eye Contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention if symptoms occur.
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention if irritation develops and persists.
<b>Inhalation</b>	Move victim to fresh air. If breathing is irregular or stopped, administer artificial respiration. Get medical attention immediately if symptoms occur.
<b>Ingestion</b>	Rinse mouth with water and afterwards drink plenty of water or milk. Do not induce vomiting or give anything by mouth to an unconscious person. Call a poison control center or doctor immediately for treatment advice. Never give anything by mouth to an unconscious person.
<b>Most important symptoms and effects, both acute and delayed</b>	Irritation
<b>Indication of immediate medical attention and special treatment needed, if necessary</b>	Treat symptomatically

**5. FIRE-FIGHTING MEASURES**

<b>Suitable Extinguishing Media</b>	Water, Foam, Carbon dioxide (CO <sub>2</sub> ). Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Specific Hazards Arising from the Chemical</b>	. Combustible material
<b>Hazardous Combustion Products</b>	Phosphorus oxides; Nitrogen oxides (NO <sub>x</sub> ); Ammonia.

**Explosion data**

**Sensitivity to Mechanical Impact** Not sensitive.  
**Sensitivity to Static Discharge** Not sensitive.

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions**

Avoid dust formation. For personal protection see Section 8.

**Other**

For further clean-up instructions, call PeroxyChem Emergency Hotline number listed in Section 1 "Product and Company Identification" above.

**Environmental Precautions**

No special environmental precautions required.

**Methods for Containment**

Sweep or vacuum up spillage and return to container. Avoid dust formation. Material may be recycled when contamination is not a problem.

**Methods for cleaning up**

After cleaning, flush away traces with water. Dispose of waste as indicated in Section 13.

## 7. HANDLING AND STORAGE

**Handling**

Provide appropriate exhaust ventilation at places where dust is formed. In case of insufficient ventilation, wear suitable respiratory equipment if release of airborne dust is expected.

**Storage**

Keep tightly closed in a dry and cool place. Any vessel that contains wet TERRAMEND must be vented due to potential pressure build up from fermentation gases.

**Incompatible products**

. Powdered magnesium, Strong acids, Strong bases. Strong oxidizing agents

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters****Exposure Guidelines**

Ingredients with workplace control parameters.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH	Mexico
Calcium carbonate 471-34-1	-	-	TWA: 10 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup>	-
Chemical name	British Columbia	Quebec	Ontario TWAEV	Alberta
Calcium carbonate 471-34-1	-	TWA: 10 mg/m <sup>3</sup>	-	TWA: 10 mg/m <sup>3</sup>

**Appropriate engineering controls****Engineering measures**

None under normal use conditions.

**Individual protection measures, such as personal protective equipment****Eye/Face Protection**

Safety glasses with side-shields.

**Skin and Body Protection**

Wear suitable protective clothing. Protective shoes or boots.

**Hand Protection**

Protective gloves.

**Respiratory Protection**

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.

**Hygiene measures**

Clean water should be available for washing in case of eye or skin contamination. Remove and wash contaminated clothing before re-use. Wash skin prior to eating, drinking, chewing gum or using tobacco. Shower or bathe at the end of working. Launder work clothing

separately from regular household laundry.

**General information** These recommendations apply to the product as supplied

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Appearance</b>	Beige, Powder
<b>Physical State</b>	Solid
<b>Color</b>	Beige
<b>Odor</b>	odorless
<b>Odor threshold</b>	Not applicable
<b>pH</b>	5.1 - 5.4 (as aqueous solution)
<b>Melting point/freezing point</b>	Not applicable No information available
<b>Boiling Point/Range</b>	No information available Not applicable
<b>Flash point</b>	Not applicable
<b>Evaporation Rate</b>	No information available
<b>Flammability (solid, gas)</b>	Combustible material
<b>Flammability Limit in Air</b>	
<b>Upper flammability limit:</b>	No information available
<b>Lower flammability limit:</b>	No information available
<b>Vapor pressure</b>	Not applicable
<b>Vapor density</b>	No information available
<b>Density</b>	No information available
<b>Specific gravity</b>	No information available
<b>Water solubility</b>	slightly soluble
<b>Solubility in other solvents</b>	No information available
<b>Partition coefficient</b>	No information available
<b>Autoignition temperature</b>	No information available
<b>Decomposition temperature</b>	No information available
<b>Viscosity, kinematic</b>	No information available (Solid)
<b>Viscosity, dynamic</b>	No information available
<b>Explosive properties</b>	Not explosive
<b>K<sub>st</sub></b>	0 bar-m/sec
<b>Oxidizing properties</b>	No information available
<b>Molecular weight</b>	No information available
<b>Bulk density</b>	No information available

## 10. STABILITY AND REACTIVITY

None under normal use conditions

<b>Chemical Stability</b>	Stable under recommended storage conditions.
<b>Possibility of Hazardous Reactions</b>	None under normal processing.
<b>Hazardous polymerization</b>	Hazardous polymerization does not occur.
<b>Conditions to avoid</b>	Excessive heat. Humid air.
<b>Incompatible materials</b>	Powdered magnesium, Strong acids, Strong bases. Strong oxidizing agents.
<b>Hazardous Decomposition Products</b>	Burning produces obnoxious and toxic fumes.

## 11. TOXICOLOGICAL INFORMATION

### Product Information

Product does not present an acute toxicity hazard based on known information.

<b>LD50 Oral</b>	5,750 mg/kg (rat) (calculated)
<b>LD50 Dermal</b>	No information available
<b>LC50 Inhalation</b>	No information available

**Sensitization** None known.

**Information on toxicological effects**

**Symptoms** Dust is irritating eyes, nose, throat, and lungs.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Irritation  
corrosivity** Not expected to be irritating based on the components.  
None.

**Carcinogenicity** Contains no ingredient listed as a carcinogen.

**Mutagenicity** This product is not recognized as mutagenic by Research Agencies

**Reproductive toxicity** This product does not contain any known or suspected reproductive hazards.

**STOT - single exposure** No information available.  
**STOT - repeated exposure** No information available.

**Aspiration hazard** No information available.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

**Ecotoxicity effects** There are no data available for this product. Not expected to have significant environmental effects.

**Persistence and degradability** No product level data available. The organic components are biodegradable and can be expected to contribute to BOD.

**Bioaccumulation** Bioaccumulation is unlikely.

**Mobility** Is not likely mobile in the environment due its low water solubility.

**Other Adverse Effects** None known.

## 13. DISPOSAL CONSIDERATIONS

**Waste disposal methods** This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

**Contaminated Packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal.

## 14. TRANSPORT INFORMATION

**DOT** NOT REGULATED

## 15. REGULATORY INFORMATION

**U.S. Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**SARA 311/312 Hazard Categories**

Acute health hazard	No
Chronic health hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

**Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**CERCLA/EPCRA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

**International Inventories**

Component	TSCA (United States)	DSL (Canada)	EINECS/EL INCS (Europe)	ENCS (Japan)	China (IECSC)	KECL (Korea)	PICCS (Philippines )	AICS (Australia)	NZIoC (New Zealand)
Monoammonium phosphate 7722-76-1 ( 40-60 )	X	X	X	X	X	X	X	X	X
Calcium carbonate 471-34-1 ( 20-30 )	X	X	X	X	X	X	X	X	X
Lecithin 8002-43-5 ( 2 )	X	X	X		X	X	X	X	X

**Mexico - Grade**

Minimum risk, Grade 0

**CANADA****WHMIS Statement**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

**WHMIS Hazard Class**

Non-controlled

## 16. OTHER INFORMATION

**TERRAMEND INORGANIC**

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<b>NFPA</b>	<b>Health Hazards</b> 1	<b>Flammability</b> 0	<b>Stability</b> 0	<b>Special Hazards</b> -
<b>HMIS</b>	<b>Health Hazards</b> 1	<b>Flammability</b> 0	<b>Physical hazard</b> 0	<b>Special precautions</b> -

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**End of Safety Data Sheet**