

# SAFETY DATA SHEET TERRAMEND™ Carbon

SDS #: TERAC-C  
Revision date: 2021-02-18  
Format: NA  
Version 1.02



## 1. PRODUCT AND COMPANY IDENTIFICATION

### Product Identifier

**Product Name** TERRAMEND™ Carbon

**Alternate Commercial Name** Aerobic Daramend®

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

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

**Restrictions on Use** No uses to be advised against were identified.

### Manufacturer/Supplier

PeroxyChem LLC  
2005 Market Street  
Suite 3200  
Philadelphia, PA 19103  
267/422-2400 (General Information)  
sdsinfo-pxc@evonik.com (E-Mail General Information)

### Emergency telephone numbers

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 %
Calcium carbonate	471-34-1	10-20
Organic amendment	Proprietary	70-90
Soy lecithin	RR-35148-4	1-5

## 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>	Inhalation of dust in high concentration may cause irritation of respiratory system.
<b>Indication of immediate medical attention and special treatment</b>	Treat symptomatically

needed, if necessary

## 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>Unsuitable extinguishing media</b>	Do not scatter spilled material with high pressure water streams.
<b>Specific Hazards Arising from the Chemical</b>	.
<b>Flammable properties</b>	Combustible material
<b>Hazardous Combustion Products</b>	Phosphorus oxides; Nitrogen oxides (NO <sub>x</sub> ); Ammonia.
<b>Explosion data</b>	
<b>Sensitivity to Mechanical Impact</b>	Not sensitive.
<b>Sensitivity to Static Discharge</b>	Not sensitive.
<b>Protective equipment and precautions for firefighters</b>	As in any fire, wear self-contained breathing apparatus and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Avoid dust formation. For personal protection see Section 8.
<b>Other</b>	For further clean-up instructions, call PeroxyChem Emergency Hotline number listed in Section 1 "Product and Company Identification" above.
<b>Environmental Precautions</b>	No special environmental precautions required.
<b>Methods for Containment</b>	Sweep or vacuum up spillage and return to container. Material may be recycled when contamination is not a problem.
<b>Methods for cleaning up</b>	After cleaning, flush away traces with water. Dispose of waste as indicated in Section 13.

## 7. HANDLING AND STORAGE

<b>Handling</b>	Avoid dust formation. Handle in accordance with good industrial hygiene and safety practice.
<b>Storage</b>	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.
<b>Incompatible products</b>	Powdered magnesium, Strong acids, Strong bases.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

### Exposure Guidelines

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** Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

**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. Do not eat, drink or smoke when using this product.

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

<b>9. PHYSICAL AND CHEMICAL PROPERTIES</b>
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**Information on basic physical and chemical properties**

<b>Appearance</b>	Flakes, Yellow to brown
<b>Physical State</b>	Solid
<b>Color</b>	No information available
<b>Odor</b>	odorless
<b>Odor threshold</b>	No information available
<b>pH</b>	4.8 - 5.1 (as aqueous solution)
<b>Melting point/freezing point</b>	No information available
<b>Boiling Point/Range</b>	No information available
<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>	No information available
<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
<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><u>Other Information</u></b>	
<b>Molecular weight</b>	No information available
No information available	

**10. STABILITY AND REACTIVITY**

<b>Reactivity</b>	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.
<b>Hazardous Decomposition Products</b>	None under normal use.

**11. TOXICOLOGICAL INFORMATION****Product Information**

<b>LD50 Oral</b>	> 2,000 5000 mg/kg (rat) (calculated)
<b>LD50 Dermal</b>	No information available
<b>LC50 Inhalation</b>	No information available

**Sensitization** Not expected to be sensitizing based on the components.

**Component Information**

<b>Chemical name</b>	<b>LD50 Oral</b>	<b>LD50 Dermal</b>	<b>LC50 Inhalation</b>	<b>NOAEL Oral Value</b>
Calcium carbonate (471-34-1)	= 6450 mg/kg ( Rat )			
Amorphous silica gel (7631-86-9)	= 7900 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	> 2.2 mg/L ( Rat ) 1 h	
Aluminum Oxide (1344-28-1)	> 5000 mg/kg ( Rat )			

**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**

<b>Irritation corrosivity</b>	Not expected to be irritating based on the components. Not applicable.
<b>Carcinogenicity</b>	This product contains crystalline silica (quartz) in a non-respirable form. Inhalation of crystalline silica is unlikely to occur from exposure to this product.
<b>Mutagenicity</b>	This product is not recognized as mutagenic by Research Agencies
<b>Neurological effects</b>	None known
<b>Reproductive toxicity Developmental toxicity</b>	This product does not contain any known or suspected reproductive hazards. Contains no known teratogenic components.

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.

Chemical name	Toxicity to algae	Toxicity to fish	Toxicity to Microorganisms	Toxicity to daphnia and other aquatic invertebrates
Amorphous silica gel	72 h EC50: = 440 mg/L (Pseudokirchneriella subcapitata)	96 h LC50: = 5000 mg/L (Brachydanio rerio) static		48 h EC50: = 7600 mg/L (Ceriodaphnia dubia)

**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** Dispose of in accordance with local regulations.

## 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

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chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	CAS-No	Weight %	SARA 313 - Threshold Values %
Aluminum Oxide - 1344-28-1	1344-28-1	0.2	1.0

**SARA 311/312 Hazard Categories**

This product is not subject to reporting under the Emergency Planning and Community Right-to-Know rule.

**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

**US State Regulations****U.S. State Right-to-Know Regulations**

This product contains the following substances regulated under state Right-to-Know laws:

Chemical name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Calcium carbonate					X

**California Proposition 65**

This product does not contain any Proposition 65 chemicals

**CANADA****Environmental Emergencies**

This product contains no substances listed under Canada's Environmental Emergency regulations.

**Canadian National Pollutant Release Inventory**

This product contains no substances reportable under Canada's National Pollutant Release Inventory regulations.

**International Inventories**

All ingredients are directly listed on the active TSCA Inventory

**Mexico**

**Mexico - Grade** Slight risk, Grade 1

<b>16. OTHER INFORMATION</b>
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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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**Revision note** SDS sections updated: 1.

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Prepared By:

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**End of Safety Data Sheet**