1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name TERRAMEND™ Carbon

Other means of identification

Synonyms Calcium carbonate: Carbonic acid, calcium salt (1:1); Precipitated chalk
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: Not for drinking water purification treatment.

Manufacturer/Supplier

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

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

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium carbonate</td>
<td>471-34-1</td>
<td>10-20</td>
</tr>
<tr>
<td>Organic amendment</td>
<td>Proprietary</td>
<td>70-90</td>
</tr>
<tr>
<td>Soy lecithin</td>
<td>RR-35148-4</td>
<td>1-5</td>
</tr>
</tbody>
</table>

Synonyms are provided in Section 1.

4. FIRST AID MEASURES

Eye Contact
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.

Skin Contact
Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention if irritation develops and persists.

Inhalation
Move victim to fresh air. If breathing is irregular or stopped, administer artificial respiration. Get medical attention immediately if symptoms occur.

Ingestion
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.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
Water, Foam, Carbon dioxide (CO₂). Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific Hazards Arising from the Chemical
Combustible material

Hazardous Combustion Products
Phosphorus oxides; Nitrogen oxides (NOx); Ammonia.

Explosion data
Not sensitive.

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. 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
Avoid dust formation. Handle in accordance with good industrial hygiene and safety practice.

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters
Exposure Guidelines

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH TWA: 10 mg/m³</th>
<th>NIOSH TWA: 5 mg/m³</th>
<th>Mexico</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium carbonate</td>
<td>-</td>
<td>-</td>
<td>TWA: 10 mg/m³</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>471-34-1</td>
<td></td>
<td></td>
<td>TWA: 5 mg/m³</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>British Columbia</th>
<th>Quebec TWA: 10 mg/m³</th>
<th>Ontario TWAEV</th>
<th>Alberta TWA: 10 mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium carbonate</td>
<td>-</td>
<td>TWA: 10 mg/m³</td>
<td>-</td>
<td>TWA: 10 mg/m³</td>
</tr>
<tr>
<td>471-34-1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

- **Appearance**: Yellow to brown, flakes
- **Physical State**: Solid
- **Color**: No information available
- **Odor**: odorless
- **Odor threshold**: No information available
- **pH**: 4.8 - 5.1 (as aqueous solution)
- **Melting point/freezing point**: Not applicable
- **Boiling Point/Range**: No information available
- **Flash point**: Not applicable
- **Evaporation Rate**: No information available
- **Flammability (solid, gas)**: Combustible material
- **Flammability Limit in Air**
  - Upper flammability limit: No information available
  - Lower flammability limit: No information available
- **Vapor pressure**: No information available
- **Vapor density**: No information available
- **Density**: No information available
- **Specific gravity**: No information available
- **Water solubility**: slightly soluble
- **Solubility in other solvents**: No information available
- **Partition coefficient**: No information available
- **Autoignition temperature**: No information available
- **Decomposition temperature**: No information available
- **Viscosity, kinematic**: No information available
- **Viscosity, dynamic**: No information available
- **Explosive properties**: Not explosive
- **Kst**: 0 bar-m/sec
- **Oxidizing properties**: No information available
- **Molecular weight**: No information available
- **Bulk density**: No information available

10. STABILITY AND REACTIVITY

- **Chemical Stability**: Stable under recommended storage conditions.
- **Possibility of Hazardous Reactions**: None under normal processing.
- **Hazardous polymerization**: Hazardous polymerization does not occur.
- **Conditions to avoid**: Excessive heat. Humid air.
- **Hazardous Decomposition Products**: None under normal use.

11. TOXICOLOGICAL INFORMATION

- **Product Information**
  - **LD50 Oral**: > 2,000 mg/kg (rat) (calculated)
  - **LD50 Dermal**: No information available
  - **LC50 Inhalation**: No information available

- **Information on toxicological effects**
  - **Symptoms**: No information available.
Delayed and immediate effects as well as chronic effects from short and long-term exposure

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
Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

DOT
NOT REGULATED

15. REGULATORY INFORMATION

U.S. Federal Regulations
TERRAMEND™ Carbon

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

<table>
<thead>
<tr>
<th>Component</th>
<th>TSCA (United States)</th>
<th>DSL (Canada)</th>
<th>EINECS/EL INCS (Europe)</th>
<th>ENCS (Japan)</th>
<th>China (IECSC)</th>
<th>KECL (Korea)</th>
<th>PICCS (Philippines)</th>
<th>AICS (Australia)</th>
<th>NZIoC (New Zealand)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium carbonate 471-34-1 (10-20)</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Soy lecithin RR-35148-4 (1-5)</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Mexico - Grade
Slight risk, Grade 1

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

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health Hazards</th>
<th>Flammability</th>
<th>Stability</th>
<th>Special Hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>-</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HMIS</th>
<th>Health Hazards</th>
<th>Flammability</th>
<th>Physical hazard</th>
<th>Special precautions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>-</td>
</tr>
</tbody>
</table>

Revision date: 2016-02-03
Revision note (M)SDS sections updated: 2, 9, 11, 12.

Disclaimer
PeroxyChem believes that the information and recommendations contained herein (including data and statements) are accurate as of the date hereof. NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specified product designated and may not be applicable where such product is used in combination with any other materials or in any process. Further, since the conditions and methods of use are beyond the control of PeroxyChem, PeroxyChem expressly disclaims any and all...
liability as to any results obtained or arising from any use of the products or reliance on such information.

Prepared By:

PeroxyChem
© 2016 PeroxyChem. All Rights Reserved.

End of Safety Data Sheet