

## About Perma-Guard™

Perma-Guard™, Inc. is the original, oldest, largest, and most experienced company providing Diatomaceous Earth (DE) for agricultural applications.

Word-of-mouth advertising from satisfied customers has spread our sales across the United States and around the world.

No one else has such extensive background in the use of DE for these purposes. Fifty+ years developing a domestic and international business says we know how!

**Let our 50+ years of experience  
Be your resource!**



North Salt Lake, UT 84054  
Phone: (505) 243-1460  
Visit us on the web at  
[www.perma-guard.com](http://www.perma-guard.com)

Fossil Shell Flour® is OMRI listed. This means that it is approved for use by any organic operation or manufacturer. Fossil Shell Flour® is Kosher too!

100 % Diatomaceous Earth— no additives or fillers



Distributed by-



Diatomaceous Earth



LIVE DIATOMS



*PG Diatoms Magnified*

The waters of the earth are inhabited by billions of one celled plants called Diatoms. These are so tiny that one drop of water could contain hundreds.

These tiny plants in the algae family are the food supply for all the higher forms of life in all the oceans and lakes of the world.

These microscopic plants take the minerals from the water and build themselves a protective shell. As they die, these shells drift to the bottom of the lake or ocean and over many years build up deposits that fossilize into a chalk-like material. These deposits are called Diatomaceous Earth (DE). The deposits differ in that there are over 25,000 varieties of Diatoms. They have their own unique shape, and each deposit, depending upon conditions, may include various types of impurities mixed in with the shells. In some cases the deposits are merely made useless by this foreign material, but in others, the deposit becomes dangerous. There may be, for example, a dangerously high amount of arsenic in the deposit. Very rarely, a deposit is laid down under circumstances where there is virtually no impurities. Perma-Guard's Fossil Shell Flour® is taken from one of these rare deposits.



## What is Diatomaceous Earth?

### NOT ALL DIATOMACEOUS EARTH IS THE SAME

Both “swimming pool” grade and natural Diatomaceous Earth come from the same fossil strata but they are processed differently. Natural DE such as Fossil Shell Flour® is mined, dried, ground, sifted and bagged. “Swimming pool” DE is heat treated (calcined), partially melted and chemically treated. As a result, the heat-treated DE contains a large percentage of crystalline silica which is hazardous. OSHA confirms that a crystalline content of 1% or more is hazardous to your health and to the health of your animals.



*Diatomaceous Earth Deposit*

***Fossil Shell Flour® contains less than half of one percent crystalline silica.***

Some DE deposits contain a large percentage of clay and are therefore less effective, and may leave a residue in the body with daily, long term use. Salt water diatoms are inconsistent in shape and more fragile making them less effective. These salt water deposits are often compromised in purity due to tidal variations. The barrel shape, the purity of the deposit and hardness of the diatom, plus the correct milling process are what makes Perma-Guard superior.

### AN ANTI-CAKING AGENT

Bird and animal feed contain substances such as molasses that cause the particles to become “sticky”. It forms clumps that not only make the feed hard to pour, but also to become moldy. Fossil Shell Flour®, mixed in the feed, coats each particle making it difficult for the particles to stick together. This allows the feed to “flow” better making the feed less likely to mold due to the moisture absorbency characteristics of Fossil Shell Flour®. No mold means less wasted feed. And this means more benefit from each dollar spent on feed.

### FDA Requirements for Mixing

Fossil Shell Flour® is used as an inert carrier or anti-caking agent in animal feeds in an amount not exceed 2 percent by weight of total ration.

This means, when mixing, that in every one hundred pounds of feed, 2 pounds of feed is replaced by 2 pounds of Fossil Shell Flour®. All regulated products are sold by the information on the label. When asked about other benefits, it is made clear that no other claims are made by the company.

