



# SAFETY DATA SHEET

Date revised: 06/04/19

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name: **Fossil Shell Flour**® Formula: **SIO<sub>2</sub>**  
Generic Name: Diatomaceous Earth EINECS: 310-127-6  
Chemical Family: Silicates CAS: 61790-53-2  
**Manufacturer:** Perma-Guard, Inc.  
Address: 60 N Cutler Drive, Unit 202 **Emergency:** Chemtrec USA (800) 424-9300  
North Salt Lake State, UT Zip: 84054

## 2. HAZARD IDENTIFICATION

### 2.1 GHS Classification:

Physical and chemical hazards: No Classification  
Human Health: No Classification  
Environment: No Classification

### 2.2 Label elements:

Pictogram: None  
Signal Word: None  
Hazard Statement: None  
Precautionary Statements: None

**Summary:** Prolonged and repeated exposure to excessive concentrations of this product's dust or any nuisance dust can cause chronic pulmonary disease. Dust contact with eyes may cause temporary scratchiness or redness. **This product has not been classified as a carcinogen by NTP or IARC.**

## 3. COMPOSITION INFORMATION ON INGREDIENTS

INGREDIENT NAME:	CAS Number:	%
NATURAL DIATOMACEOUS EARTH (DE)	61790-53-2	100
Diatomaceous Earth AMORPHOUS SILICA		(uncalcined)
<b>Contains Less than .1% Crystalline Silica</b>		6 mg/M3
TOTAL DUST, MSHA 10 mg/M3 TOTAL DUST, ACGIH		

## 4. FIRST AID MEASURES

**Inhalation:** Remove to fresh air. Drink water to clear throat. Blow nose to clear dust.  
**Eyes:** Flush eyes with large quantities of water. If irritation persists contact a physician.  
**Skin Contact:** NA **Skin Absorption:** NA **Ingestion:** NOT HAZARDOUS WHEN INGESTED

## 5. FIRE FIGHTING MEASURES

**Flash Point:** Non-Flammable **Flammable Limits:** LEL: NA UEL: NA  
**Extinguishing Media:** NA **Special Fire Fighting Procedures:** None  
**Unusual Fire and Explosion Hazards:** None **Auto Ignition Temperature:** None  
**NFP Flammable/Combustible Liquid Classification:** NA

## 6. ACCIDENTAL RELEASE MEASURES

**Procedures for Spill/Leak:** Vacuum Clean dust with equipment fitted with HEPA filter. Use a dust suppressant such as water if sweeping is necessary.

## 7. HANDLING AND STORAGE

Minimize dust generation and accumulation. Avoid breathing dust. Avoid contact with eyes. Seal broken bags immediately Continue to follow all SDS/Label warnings when handling empty containers.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Goggles:** Goggles or Safety Glasses with Side Shields are recommended  
**Gloves:** Not normally required. **Respirator:** <10X PEL. Use an N95 Quarter or half mask respirator: <50X PEL, use a full face respirator equipped the N95 filters, <200X PEL, use a powder air purifying respirator (positive pressure) with N95 filters, Type C supplied air respirator (Continuous flow mode). **Ventilation:** Use Sufficient Natural or Mechanical ventilation to keep dust level below PEL.  
**MSHA PEL**—6 mg/M3 total nuisance dust (uncalcined Diatomaceous Earth)  
**ACGIH TLV**– 10 mg/M3 Total Dust

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance and odor:** fine white powder, no odor **Boiling Point:** NA  
**Vapor Pressure:** NA **Water Solubility (%):** NA **Evaporation rate:** NA  
**Melting Point:** ND **Vapor Density:** NA **Specific Gravity (water =1):** 2.2  
**% Volatile by Volume:** NIL **PH:** 7.5-9.0

**10. STABILITY and REACTIVITY**

**Material is Stable** Hazardous Polymerization cannot occur  
**Chemical incompatibilities:** Hydrofluoric Acid **Conditions to Avoid:** None in designed use

**11. TOXICOLOGY INFORMATION**

**Summary:** Prolonged and repeated exposure to **excessive** concentrations of this product’s dust, or any nuisance dust, can cause chronic pulmonary disease. Dust contact with eyes may cause temporary scratchiness or redness. This product **has not** been classified as a carcinogen by NTP or IARC.

**12. ECOLOGICAL INFORMATION**

Generally considered chemically inert in the environment. Used material that has become contaminated may have significantly different characteristics based on the contaminants and should be evaluated accordingly.

**13. DISPOSAL CONSIDERATIONS**

Waste is not hazardous as defined by RCRA (40 CFR 261). Other state and local regulations may vary, consult local agencies as needed. Used material that has become contaminated may have significantly different characteristics based on the contaminants and should be evaluated accordingly.

**14. TRANSPORTATION INFORMATION**

**D.O.T. Proper Shipping Name:** Earth, Diatomaceous, Crude or Ground.  
**Hazard Classification:** Not Classified **Reportable quantities:** NA **UN (United Nations):** NA  
**(North America) Number:** NA

**15. REGULATORY INFORMATION**

**OSHA:** Hazard Communications Standard, 29 CFR 1910.1200: Material considered hazardous, see section 3  
**RCRA:** This material is not defined as hazardous waster per 40 CFR 261  
**TSCA:** This material is listed in the TSCA inventory and is not otherwise regulated by TSCA Sec 4,5,6,7 or 12  
**CERCLA:** Material is not reportable under CERCLA, local requirements may vary  
**SARA:** 311/312 hazard categories-Immediate and delayed health, 313 reportable ingredients: None  
**CANADA:** This product is listed on the DSL  
**CALIFORNIA:** Proposition 65, Not Applicable  
**EU Regulation (EC) N ° 1272/2008:** This material is labeled and supported accordingly with GHS standards  
**European Existing Chemicals (EINECS):** All of the components of this product are included on EINECS

**16. OTHER INFORMATION**

The block contains several safety-related graphics and labels. On the left is the NFPA Fire Hazard Symbol, a diamond divided into four quadrants: Flammability (top, 0), Health (left, 1), Reactivity (right, 0), and Special Hazards (bottom, -). To its right are two pictograms: Safety Glasses and a Dust Mask. On the far right is a GHS hazard label with a blue header 'HEALTH' containing a star and the number '1', a red section 'FLAMMABLE' with '0', an orange section 'PHYSICAL HAZARD' with '0', and a white section 'PERSONAL PROTECTION' with 'E'. Below the NFPA symbol is the text: 'NFPA FIRE HAZARD SYMBOL. See NFPA 704 for detailed explanation.'