

# MATERIAL SAFETY DATA SHEET

Date revised: 11/4/2010



## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name(s): **Fossil Shell Flour**  
Generic Name: Natural Diatomaceous earth  
Chemical Name: Amorphous Silica  
Manufacturer: Perma-Guard, Inc.  
Address: 625 East, 2150 South  
City: Bountiful State: UT Zip: 84010

CAS: 61790-53-2  
EINECS: 310-127-6  
Formula:  $\text{SiO}_2$   
Emergency: CHEMTREC-USA (800) 424-9300  
International: (703) 527-3887 (Collect)

## 2. COMPOSITION INFORMATION

INGREDIENT Name:	CAS Number:	%	PEL and TLV (except as noted)
NATURAL DIATOMACEOUS EARTH (DE) AMORPHOUS SILICA	61790-53-2	100	Diatomaceous Earth (uncalcined) 6 mg/M <sup>3</sup> TOTAL DUST, MSHA 10 mg/M <sup>3</sup> TOTAL DUST, ACGIH

## 3. HAZARD IDENTIFICATION

Summary: PROLONGED AND REPEATED EXPOSURE TO EXCESSIVE CONCENTRATIONS OF THIS PRODUCT 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.

Medical Conditions which may be aggravated: PRE- EXISTING UPPER RESPIRATORY AND LUNG DISEASE SUCH AS. BUT NOT LIMITED TO BRONCHITIS, EMPHYSEMA AND ASTHMA.  
Target Organ(s): LUNGS, EYES

Acute health Effects: TRANSITORY UPPER RESPIRATORY OR EYE IRRITATION.

Chronic Health Effects: PROLONGED AND REPEATED EXPOSURES TO EXCESSIVE CONCENTRATIONS OF PRODUCT DUST, IN EXCESS OF THE PEL/TLV, CAN CAUSE CHRONIC PULMONARY DISEASE.

Primary Entry Route(s): INHALATION, DUST CONTACT WITH EYES.

Inhalation: IRRITATION AND SORENESS IN THROAT & NOSE. IN EXTREME EXPOSURES SOME CONGESTION MAY OCCUR.  
Eyes: TEMPORARY IRRITATION OR INFLAMMATION.

Skin Contact: NA Skin Absorption: NA Ingestion: NOT HAZARDOUS WHEN INGESTED

## 4. FIRST AID MEASURES

Inhalation: REMOVE TO FRESH AIR. DRINK WATER TO CLEAR THROAT AND BLOW NOSE TO EVACUATE DUST.

Eyes: FLUSH EYES WITH LARGE QUANTITIES OF WATER. IF IRRITATION PERSISTS CONSULT A PHYSICIAN.

Skin Contact: NA Skin Absorption: NA Ingestion: NOT HAZARDOUS WHEN INGESTED

## 5. FIRE FIGHTING MEASURES

Flash Point: (Method): NON FLAMMABLE

NFPA Flammable/Combustible Liquid Classification: NA

Flammable Limits: LEL: NA

UEL: NA

Auto-Ignition Temperature: NA

Extinguishing Media: NA

Unusual Fire or Explosive Hazards: NONE

Special Fire-Fighting Procedures: NONE

## 6. ACCIDENTAL RELEASE MEASURES

Procedures for Spill/Leak: VACUUM/CLEAN DUST WITH EQUIPMENT FITTED WITH A 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 MSDS 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 WITH N95 FILTERS. <200X PEL, USE A POWERED AIR PURIFYING RESPIRATOR (POSITIVE PRESSURE) WITH N95 FILTERS. >200X PEL, USE A FULL FACE TYPE C SUPPLIED AIR RESPIRATOR (CONTINUOUS FLOW MODE).

Ventilation: USE SUFFICIENT NATURAL OR MECHANICAL VENTILATION TO KEEP DUST LEVEL BELOW PEL.

Other: Special considerations for repair/maintenance of contaminated equipment: INSURE PROPER RESPIRATORY PROTECTION.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and odor: FINE WHITE POWDER, NO ODOR

Boiling Point:	NA	Evaporation Rate: ( =1):	NA	Specific Gravity (water =1) :	2.2
Vapor Pressure:	NA	Melting Point:	ND	% Volatile by Volume:	NIL
Water Solubility:	Negligible	Vapor Density:	NA	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. TOXICOLOGICAL 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 THE NTP OR IARC.

## 12. ECOLOGICAL INFORMATION

GENERALLY CONSIDERED CHEMICALLY INERT IN THE ENVIRONMENT. USED MATERIAL WHICH 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 CFR261). OTHER STATE AND LOCAL REGULATIONS MAY VARY. CONSULT LOCAL AGENCIES AS NEEDED. USED MATERIAL WHICH 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: NOT APPLICABLE UN (United Nations), NA (North America) Number: NA

## 15. REGULATORY INFORMATION

OSHA: Hazard Communications Standard 29CFR 1910.1200: MATERIAL IS CONSIDERED HAZARDOUS. SEE SECTION 3

RCRA: THE MATERIAL IS NOT DEFINED AS HAZARDOUS WASTE 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.

CRCLA: 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.

## 16. OTHER INFORMATION

Storage Segregation Hazard Classes: NA Special Handling/Storage : REPAIR ALL BROKEN BAGS IMMEDIATELY  
Special Workplace Engineering Controls: ADEQUATE VENTILATION TO KEEP DUST LEVEL BELOW PEL.

PREPARED/REVISED BY: Marvin Haney, Perma-Guard, Inc. (801) 726-7107 As of the date of this document, the foregoing information is believed to be accurate and is provided in good faith to comply with appropriate federal and state law(s). However, no warranty or representation with respect to such information is intended or given.