

MATERIAL SAFETY DATA SHEET

1 - MATERIAL IDENTIFICATION

Material Name: Diatomaceous Earth (FG)

2 - COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>Wt %</u>	<u>CAS #</u>
Diatomaceous earth - natural	100%	61790-53-2
Crystalline silica, Quartz	< 1%	14808-60-7

3 - HAZARDS IDENTIFICATION

This product consists of natural diatomaceous earth and small quantities of crystalline silica (less than 1%). Prolonged breathing of dust containing crystalline silica may cause lung damage. Avoid breathing dust (see Section 11 for additional information).

4 - FIRST AID MEASURES

- 4.1 Inhalation:** Remove to fresh air.
- 4.2 Ingestion:** Short-term exposure not considered harmful. Drink water to reduce bulk and drying effects.
- 4.3 Eyes:** Wash with generous quantities of water. Consult physician if irritation persists.
- 4.4 Skin:** None necessary. If dryness occurs, use moisture renewing lotions.

5 - FIRE FIGHTING MEASURES

5.1 Flashpoint and Method:	Not applicable	Non-Flammable
5.2 Flammable Limits:	Not applicable	Non-Flammable
5.3 Autoignition Temperature:	Not applicable	Non-Flammable
5.4 Flammable Class:	Not applicable	Non-Flammable
5.5 Flame Propagation or burning rate of solids:	Not applicable	Non-Flammable
5.6 General Hazard:	Not applicable	Non-Flammable
5.7 Extinguishing Media:	None	Non-Flammable
5.8 Hazardous Combustion Products:	Not applicable	Non-Flammable
5.9 Fire Fighting Procedures:	Not applicable	Non-Flammable
5.10 Fire Fighting Equipment:	Not applicable	Non-Flammable
5.11 Sensitive to Static Discharge:	Not applicable	Non-Flammable
5.12 Sensitivity to Impact:	Not applicable	Non-Flammable

6 - ACCIDENTIAL RELEASE MEASURES

6.1 Environmental Precautions:

Diatomaceous earth is a non-toxic, non-biodegradable mineral. Waste generated from this product would only be considered hazardous when mixed with a substance that would be considered hazardous.

6.2 General Procedures:

No special procedures necessary

6.3 Release Notes:

No special procedures necessary

7 - HANDLING & STORAGE

7.1 Handling:

Use appropriate personal protective equipment as specified in Section 8. Handle and use in a manner consistent with good industrial practice.

7.2 Storage:

Store unopened containers in a dry place.

8 - EXPOSURE CONTROLS/ PERSONAL PROTECTION

8.1 Engineering Controls:

Control dust to within the ACGIH-TLV with local ventilation.

8.2 Occupational exposure limits:

EXPOSURE LIMITS TABLE **ACGIH – TLV**

Diatomaceous earth < 1% crystalline silica

10 mg / m³ (total dust)
3 mg / m³ (respirable dust)

8.3 Personal Protective Equipment:

Respiratory: Respirators fitted with filters certified to NIOSH (US) standard 42CFR84 under series N95 should be worn when airborne dust is present.

Skin: Not normally necessary

Eyes & Face: Not normally necessary

9 - PHYSICAL AND CHEMICAL PROPERTIES

9.1 Physical State: Solid

9.9 Vapor pressure: Not applicable

9.2 Odour: Odourless

9.10 Density: 2.0 (specific gravity)

9.3 Appearance: Buff to off-white powder

9.11 Solubility in water: < 2%

9.4 pH (10% slurry): 6 - 8

9.12 Coefficient oil/water: Not applicable

9.5 Colour: Buff to off-white powder

9.13 Other data: None

9.6 Boiling point: Not applicable

9.7 Melting point: > 1300° C

9.8 Oxidizing properties: Not applicable

10 - STABILITY and REACTIVITY

10.1 Conditions to avoid:	Hydrofluoric acid
10.2 Stability:	Stable
10.3 Hazardous decomposition products:	Not applicable
10.4 Other considerations:	None

11 - TOXICOLOGICAL INFORMATION

11.1 Dermal LD₅₀:	Not available
11.2 Oral LD₅₀:	Not available
11.3 Inhalation LC₅₀:	Not available
11.4 Eye effects:	May cause significant irritation to the eye
11.5 Skin effects:	May cause dryness
11.6 Sensitization:	Not available

11.7 Chronic: This product contains small quantities of crystalline silica. In a 1997 Monograph (Volume 68, "Silica, some Silicates, Coal Dust and Para Aramid Fibrils") the International Agency for research on Cancer (IARC) reviewed various mineral products containing crystalline silica. In its evaluation, IARC noted that "There is inadequate evidence in experimental animals for the carcinogenicity of uncalcined diatomaceous earth". It further noted that "Amorphous silica is not classifiable as to its carcinogenicity to humans (Group 3)". Natural, uncalcined diatomaceous earth which consists of predominantly amorphous silica and may contain trace quantities of crystalline silica, is considered to fall within a Group 3 designation by IARC, not classifiable as to its carcinogenicity (not WHMIS regulated).

12 - ECOLOGICAL INFORMATION

12.1 Environmental Data:	Insoluble mineral product. Will not have adverse impact on waterways.
12.2 Ecotoxicological information:	Not applicable
12.3 Chemical fate information:	Not applicable

13 DISPOSAL CONSIDERATIONS

13.1 Disposal method:	Use solid waste disposal common to landfill operations. Not considered hazardous waste.
13.2 Product disposal:	Avoid creating dust.
13.3 Empty container:	Avoid creating dust.
13.4 General comments:	None

14 - TRANSPORT INFORMATION

14.1 DOT (Department of Transportation):

- | | |
|-------------------------|--|
| A. Proper shipping name | Not restricted by DOT |
| B. Technical name | Diatomaceous earth |
| C. Label | Use product identifier (trade name) with technical name below. |

14.2 Canada Transport of Dangerous Goods:

- | | |
|-------------------------|--|
| A. Proper shipping name | Not restricted |
| B. Technical name | Diatomaceous earth |
| C. Label | Use product identifier (trade name) with technical name below. |

15 – REGULATORY INFORMATION

15.1 Canada – WHMIS

Hazard symbol and classification – none required, not WHMIS regulated

15.2 Canada – Ingredient Disclosure List

This product does not have any ingredient(s) on the Ingredient Disclosure List.

15.3 Canada – Environmental Protection Act

Product listed on Non-domestic Substance List (NDSL).

15.4 This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by the Controlled Products Regulations.

16 – OTHER INFORMATION

NFPA CODES: Fire: 0 Health: 1 Reactivity: 0

HMIS CODES: Fire: 0 Health: * Reactivity: 0 Protection: E

* Refer to data on Material Safety Data Sheet