

# MATERIAL SAFETY DATA SHEET

Revision #: 02

## Section 1 - Product Identification & Use

Product Name: **Diatomaceous Earth**  
Synonyms: DE, Aquacel, Celite  
Product Use: Filter aid, fillers.  
WHMIS: D2A  
TDG Classification: Not regulated.  
Supplier: Advance Chemicals Ltd.  
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## Section 2 - Hazardous Ingredients

Hazardous Components	%(w/w)	C.A.S. No.	LD <sub>50</sub> & LC <sub>50</sub>
Flux-calcined diatomaceous earth	100	68855-54-9	not available

## Section 3 - Physical Properties

Physical State: solid                      Specific Gravity: 2.3  
Boiling point: 2230°C                      Freezing point: 1703°C  
Vapour pressure: no data                      Water solubility: insoluble  
pH (1% sol'n): 8  
Appearance: Fine white powder. Odorless.

## Section 4 - Fire or Explosion Hazard

**Flammability:** Not considered to be flammable.  
**Extinguishing media:** Not applicable.  
**Special Fire Fighting Procedures:** None.  
**Unusual Fire and Explosion Hazards:** None.  
**Hazardous Combustion Products:** No data.

## Section 5 - Reactivity Data

**Stability:** Stable.  
**Incompatible substances:** Hydrofluoric acid, oxidizing agents like fluorine, chlorine trifluoride and oxygen difluoride.  
**Polymerization:** Will not occur.  
**Hazardous Reactions/Decomposition:** None determined.

## Section 6 - Toxicological Properties

**Skin contact:** None determined.  
**Eye contact:** Irritant. May cause inflammation.  
**Inhalation:** Irritation and soreness in throat and nose. In extreme exposures some congestion may occur.  
**Ingestion:** Not hazardous.  
**Chronic Effects on Humans:** This products contains crystalline silica (CS), which is considered a hazard by inhalation, IARC has classified inhalation of CS as carcinogenic for humans (group 1). CS is listed by NTP as a substance which may reasonable be anticipated to be a carcinogen. Inhalation of CS is also known to cause silicosis, a noncancerous lung disease. Classified 2A (Probable for human) by IARC.  
**Mutagenicity:** No data found.

## Section 7 - Preventative Measures

**Personal Protective Equipment:** Avoid contact eyes. Wear chemical protective goggles and a lab coat.  
**Respiratory protection:** Use an NIOSH respirator approved for dusts and mists. Do not exceed the limits of the respirator.  
**Ventilation Requirements:** Use local exhaust ventilation or other means to control airborne dust.  
**Special Handling Procedures:** Wash thoroughly after handling product.  
**Storage Requirements:** Store product in a cool, dry location, away from food and drink. Personnel should wear approved dust mask or respirator. Avoid breathing dusts. Wear chemical protective clothing as necessary, eye protective goggles, rubber or neoprene gloves.  
**Action to take for spills & leaks:** Wear chemical protective clothing, rubber gloves and suitable respiratory protection. Small spills should be wiped up and disposed of in government approved waste containers. Flush spill area with large volumes of water. Run-off should be collected and properly disposed of. Keep product out of sewers, storm drains, surface run-off water and soil. Restrict access to non-protected personnel. Comply with all government regulations on spill reporting, handling and disposal of waste.

**Disposal methods:** Dispose of contaminated product and materials used in cleaning up spills or leaks in a manner approved for this material. Consult appropriate federal, provincial and local regulatory agencies to ascertain proper disposal procedures.

**Note:** Empty packages may have residues, gasses and mists, and are subject to proper waste disposal as mentioned above.

**Repair and Maintenance Precautions:** Repair all broken bags immediately. Do not cut, grind, weld or drill in, on or near product.

## Section 8 - First Aid Measures

**If inhaled:** Remove victim to fresh air. Drink water to clear throat and blow nose to evacuate dust. Give artificial respiration if not breathing. Get immediate emergency medical attention.

**In case of eye contact:** Immediately flush eyes with clean water for at least fifteen (15) minutes, lifting the upper and lower eye lids occasionally. Get immediate emergency medical attention.

**In case of skin contact:** Wash with water and soap.

**In case of ingestion or swallowing:** If victim is conscious and medical attention is not immediately available, dilute stomach contents by giving several glasses of water. DO NOT INDUCE VOMITING. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS VICTIM. If vomiting occurs, clear and rinse patient's mouth with water and have the patient drink more water. GET IMMEDIATE EMERGENCY MEDICAL ATTENTION.

## Section 9 - Preparation Information

Advance Chemicals Limited expressly disclaims all expressed or implied warranties of merchantability and fitness for a particular purpose with respect to the product provided. The information contained herein is offered only as a guide to the handling of this specific product, and has been prepared in good faith by technically knowledgeable personnel. This M.S.D.S. is not intended to be all inclusive, and the manner and conditions of use may involve other and additional considerations.

Revised: 18 January 2005; 22 November 2006