

Abbreviations used on this Material Safety Data Sheet:
 N/av. = Not available, N/ap. = Not applicable, ppm = parts per million, TLV = Threshold Limit Value.
 NFPA Hazard Rating: 4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-None, X-Blank

SECTION I - PRODUCT IDENTIFICATION AND USE	
PRODUCT IDENTIFIER	RED LAKE EARTH
MANUFACTURER'S NAME	Absorbent Products Ltd
STREET ADDRESS	724 East Sarcee St.
CITY/PROVINCE	Kamloops, BC
POSTAL CODE	V2H 1E7
EMERGENCY TELEPHONE NUMBER:	1-800-667-0336
CHEMICAL NAME:	Diatomaceous Earth
TRADE NAME:	RED LAKE EARTH
CHEMICAL FAMILY:	Silica
MATERIAL USE:	Agricultural / Anti-caking Agent / Processing Aid

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4 - extreme
3 - high
2 - moderate
1 - slight
0 - insignificant



NFPA HAZARD RATING:
 Health - 1, Flammability - 0, Reactivity - 1

SECTION II - HAZARDOUS INGREDIENTS OF MATERIAL				
HAZARDOUS INGREDIENTS	%	CAS NUMBER OR UN NUMBER OR NA NUMBER	OSHA PEL (ACGIH TLV)	LD50/ LC 50 SPECIES AND ROUTE
Naturally Occuring Diatomaceous Earth (Typical Analysis = 67% Silicon Dioxide)	100%	61790-53-2	see below	N/av.
Free Crystalline Silica or Silica, quartz	<1%	14808-60-7	see below	N/av.
For sampling silica dusts refer to NIOSH Analytical Method 7500 or OSHA method ID 142				

SECTION III - PHYSICAL DATA FOR MATERIAL			
PHYSICAL STATE	solid	ODOR AND APPEARANCE	No odor, Buff / grey powder
VAPOR PRESSURE (mm Hg)	N/ap.	DENSITY (20 degrees Celcius)	32lb/cu. ft. +/- 5
VAPOR DENSITY (Air = 1)	N/ap.	SOLUBILITY IN WATER	Insoluble, forms colloidal suspension
SPECIFIC GRAVITY (Water=1)	2.2	pH	5.5 - 6.5
FREEZING POINT	N/ap.		slightly acidic in water
BOILING POINT	N/ap.		

SECTION IV - FIRE AND EXPLOSION DATA			
FLAMMABILITY (IF YES, UNDER WHICH CONDITIONS?)	YES	NO	X
MEANS OF EXTINCTION	N/ap.	SPECIAL PROCEDURES	N/ap.
FLASHPOINT AND METHOD	N/ap.	UPPER FLAMMABILITY LIMIT (% BY VOLUME)	N/ap.
AUTOIGNITION TEMPERATURE	N/ap.	LOWER FLAMMABILITY LIMIT (% BY VOLUME)	N/ap.
HAZARDOUS COMBUSTION PRODUCTS	N/ap.		
EXPLOSION DATA:			
SENSITIVITY IMPACT	No	SENSITIVITY TO STATIC DISCHARGE	No

MATERIAL IDENTIFIER: RED LAKE EARTH

SECTION V - HEALTH HAZARDS

Routes of Exposure and Effects:

Inhalation: Acute (short term) exposure to dust levels exceeding the PEL may cause irritation of respiratory tract resulting in a dry cough. Chronic (long term) exposure to crystalline free silica contained by airborne diatomaceous earth dust where levels are higher than TLV's may lead to the development of silicosis or other respiratory problems. Persistent dry cough, throat irritation and labored breathing on exertion are symptomatic. exposure may aggravate existing upper respiratory tract diseases such as asthma, bronchitis or emphysema.

Eyes: Irritant.

Skin: Possible drying results in dermatitis.

Ingestion: No adverse effects.

Permissible Exposure Limits: (for airborne, nuisance dusts)	OSHA PEL	ACGIH	OHS	OHS STEL
Diatomaceous earth	8 hr TWA	TLV	8 hr TWA	
Total dust	15 mg/m ³	Not detected	4 mg/m ³	n/a
Respirable dust	5 mg/m ³	Not detected	1.5 mg/m ³	n/a
Crystalline quartz (respirable)	0.1 mg/m ³	0.1 mg/m ³	0.025mg/m ³	n/a

EFFECTS OF CHRONIC EXPOSURE TO PRODUCT

Exposure to quantities of crystalline silica dust, in the forms of quartz, cristobalite or tridymite, may be present in airborne dust. If the concentration levels are in excess of the OSHA Permissible Limit (PEL-TWA 8hrs) of 0.05mg/m³ or the ACGIH Threshold Limit Value (TLV) of 0.05mg/m³, the crystalline silica is a known cause of silicosis, a progressive, sometimes fatal, lung disease. From the International Agency for Research on Cancer (IARC), a 1997 review of "Crystalline Silica Inhaled in the Form of Quartz or Cristobalite" coded Monograph 68 concluded that Amorphous Silica is not classifiable to its carcinogenicity to humans (Group 3)

SECTION VI - REACTIVITY DATA

CHEMICAL STABILITY (IF NO, UNDER WHICH CONDITIONS)	YES	X	
INCOMPATIBILITY WITH OTHER SUBSTANCES (IF YES, WHICH ONES)	YES	X	Hydrofluoric acid - silica may react violently
REACTIVITY, AND UNDER WHAT CONDITIONS			N/ap.
HAZARDOUS DECOMPOSITION PRODUCTS			N/ap.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

PERSONAL PROTECTIVE EQUIPMENT

Bureau of Mines or NIOSH approved respirators for protection against pneumoconiosis producing dusts recommended when dust is present. If the dust concentration is less than ten (10) times the Permissible Exposure Limit (PEL) use quarter or half mask respirator with replacement dust filter or single use dust respirator with valve. If dust concentration is greater than ten (10) times and less than one hundred (100) times the PEL use full faceplate respirator with replaceable dust filter; if greater than one hundred (100) and less than two hundred (200) times the PEL use power air purifying (positive pressure) respirator with replaceable filter; if greater than two hundred (200) times the PEL use type C, automatic-air respirator, continuous flow type (positive pressure), with full facepiece, head or helmet.

GLOVES (SPECIFY)	Not needed under normal conditions of use.
RESPIRATOR (SPECIFY)	Avoid breathing dust. Use respirators approved NIOSH/OSHA for silica bearing dust.
EYE (SPECIFY)	Use protective goggles in high dust conditions.
FOOTWEAR (SPECIFY)	As required on jobsite.

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SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE CONTINUED

CLOTHING (SPECIFY) **Wear coveralls in high dust conditions.**

ENGINEERING CONTROLS (SPECIFY, E.G. VENTILATION, ENCLOSED PROCESS)
Local - control within recommended TLV/PEL, mechanical filtration to minimize dust. Refer to ACGIH publication "Industrial Ventilation" or similar publications for design of ventilation systems.

LEAK AND SPILL PROCEDURE
Vacuum clean spillage, wet sweep or wash away. Avoid creating dust.

WASTE DISPOSAL
Dispose of in accordance with local, state and federal regulations.

HANDLING PROCEDURES
Avoid creating dust. Repair or properly dispose of broken bags. Use wet process or enclosed handling.

STORAGE REQUIREMENTS
Store in a dry place to maintain product quality. Keep containers closed and in good condition. Repair damaged containers.

SPECIAL SHIPPING INFORMATION
None

SECTION VIII - FIRST AID MEASURES

SPECIFIC MEASURES

Inhalation: Remove victim to fresh air. If breathing has stopped, a trained person should perform artificial respiration. Acute inhalation can cause dryness of the nasal passage and congestion of the upper respiratory tract.

Ingestion: Do not induce vomiting. Short-term exposure not considered harmful. Drink generous amounts of water to reduce bulk and drying effects.

Eye: Wash with generous quantities of water. Consult physician if irritation persists. May cause irritation or inflammation.

Skin contact: Remove contaminated clothing. Wash with soap and water until clean. Use moisture renewing lotions if dryness occurs. Not absorbed by the skin. May cause dryness.

SECTION IX - DEPARTMENT OF TRANSPORTATION

HAZARDOUS MATERIALS DESCRIPTION:	None	IDENTIFICATION NUMBER:	None
TECHNICAL NAME:	None	LABEL(S) REQUIRED:	None
HAZARDOUS CLASS:	None		

SECTION X - ENVIRONMENTAL DATA

EMERGENCY PLANNING AND COMMUNITY RIGHT TO KNOW INFORMATION

This product contains no toxic chemicals subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372 (SARA 313 - Toxic Chemical Release Reporting).

EPA SARA 311/312 Hazard Classification: This product is considered hazardous under OSHA and SARA Title III, Section 301. Category: Chronic Health.

CERCLA Section 103: This product is not subject to CERCLA reporting requirements as it is sold. Refer to CERCLA regulations to determine if used product mixed with other chemicals or materials may be reportable. Many states have more stringent release reporting requirements. Reports spills required under federal, state and local regulations.

EPZ Toxic Substance Control Act (TSCA): All of the ingredients are listed on the TSCA Chemical Substances Inventory.

DOT Marine Pollutants: This product does not contain Marine Pollutants as defined in 49 CFR 171.8.

SECTION XI - PREPARATION DATE OF MSDS

PREPARED BY:	PHONE NUMBER	DATE
Quality Control Staff, Absorbent Products Ltd.	1-800-667-0336	May, 2013

All information presented herein is believed to be accurate; however, it is the user's responsibility to determine in advance of need that the information is current and suitable for their circumstances. No warranty or guarantee, expressed or implied is made by Absorbent Products Ltd., as to the information, or as to the safety, toxicity or the effect of this product.