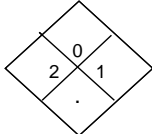



Abbreviations used on this Safety Data Sheet:

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 - IDENTIFICATION OF THE MATERIAL AND SUPPLIER

PRODUCT NAME	ACTIVATED BARN FRESH	 	NFPA HAZARD RATING: Health - 2 Flammability - 0 Reactivity - 1
OTHER NAMES			
MATERIAL USE:	Animal Litter Amendment		
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		
			4 = extreme 3 = high 2 = moderate 1 = slight 0 = insignificant

SECTION II - HAZARD IDENTIFICATION

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. Long term exposure (to diatomaceous earth) can cause silicosis. The National Toxicology Program and the International Agency for Research on Cancer has determined that crystalline silica (from diatomaceous earth) inhaled from **occupational sources** can cause cancer in humans. Risk of injury is dependent on the duration and level of exposure. **A single exposure to diatomaceous earth will not result in serious adverse effects.** Citric acid has been classified by WHMIS as D2B, a toxic material causing other effects - moderate eye irritant. It is considered as harmful when in contact with eyes, causing serious irritation. It may be harmful if inhaled, causing respiratory tract irritation. Do not ingest. See section 8 (VIII) for personal protective equipment recommendations.



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.

See SECTION XI - TOXICOLOGICAL INFORMATION

SECTION III - COMPOSITION OF SUBSTANCE

HAZARDOUS INGREDIENTS	%	CAS NUMBER	OSHA PEL (ACGIH TLV)	LD50/ LC 50 SPECIES AND ROUTE
Naturally Occurring Diatomaceous Earth (Typical Analysis = 67% Silicon Dioxide)	61%	61790-53-2	See Section VIII	N/av.
Free Crystalline Silica or Silica, quartz (Occurs naturally in Diatomaceous Earth)	<1%	14808-60-7	See Section VIII	N/av.
Citric Acid	39%	5949-29-1	See Section VIII	LD50 oral Rat = 11,700mg/kg LD50 intraperitoneal Rat = 885mg/kg LD50 oral Mouse = 5,040mg/kg LD50 intraperitoneal Mouse = 961mg/kg

For sampling silica dusts refer to NIOSH Analytical Method 7500 or OSHA method ID 142

SECTION IV - FIRST AID 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 passages and congestion of the upper respiratory tract.

Ingestion: Do not induce vomiting. Drink generous amounts of water to reduce bulk and drying effects. Never give anything by mouth to an unconscious person. Consult a physician.

Eyes: Wash with large quantities of water. Consult physician if irritation persists. May cause irritation/inflammation.

Skin: May cause dryness. Remove contaminated clothing. Wash with soap and water until clean. Use moisture renewing lotions if dryness persists.

SECTION V - FIREFIGHTING MEASURES				
Flammability	No	Means of Extinction	Use Water Spray, alcohol-resistant foam, dry chemicals, and/or carbon dioxide	
Flashpoint (Method)	N/av.	Special Procedures	Non Flammable or Combustible under normal conditions.	
Auto ignition temperature	N/av.	Sensitivity to Impact	N/av.	
Hazardous Combustion Products	Carbon Oxides	Sensitivity to Static Discharge	N/av.	
Upper Flammability Limit (% by Volume)	N/av.			
Lower Flammability Limit (% by Volume)	N/av.			
SECTION VI - ACCIDENTAL RELEASE MEASURES				
PROCEDURE FOR SPILLS / LEAKS:	Avoid creating further dust. Vacuum with equipment fitted with a filter. Alternatively, wet sweep or wash away. Dispose of in accordance with local, State, and Federal Regulations.			
SECTION VII - HANDLING AND STORAGE				
HANDLING PROCEDURES				
Avoid creating dust. Repair or properly dispose of broken bags. Use enclosed handling.				
STORAGE REQUIREMENTS				
Store in a dry, well ventilated place to maintain quality. Keep containers closed and in good condition. Repair damaged containers.				
SECTION VIII - EXPOSURE CONTROLS AND PERSONAL PROTECTION				
PERMISSABLE EXPOSURE LIMITS:	OSHA PEL	ACGIH	OHS	OHS STEL
(for airborne, nuisance dusts)	8 hr TWA	TLV	8 hr TWA	
Diatomaceous earth				
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	0.025mg/m ³	0.025mg/m ³	n/a
Citric Acid	None Listed	None Listed	None Listed	n/a
EFFECTS OF CHRONIC EXPOSURE TO PRODUCT. Exposure to quantities of crystalline silica respirable dust ($\leq 10 \mu$), in the forms of quartz, cristobalite or tridymite, may occur when in the presence of airborne dust. If the dust concentration levels are in excess of the OSHA Permissible Limit (PEL-TWA 8hrs) of 0.1mg/m ³ or the ACGIH Threshold Limit Value (TLV) of 0.025mg/m ³ , the crystalline silica present is a known cause of silicosis, a progressive, sometimes fatal, lung disease. From the International Agency for Research on Cancer (IARC), a 2012 review of "Silica Dust, Crystalline, in the form of Quartz or Cristobalite" coded Monograph 100C concluded that Crystalline silica in the form of quartz or cristobalite dust is carcinogenic to humans (Group 1).				
ENGINEERING CONTROLS (SPECIFY, E.G. VENTILATION, ENCLOSED PROCESS)				
Control within recommended TLV/PEL, mechanical filtration to minimize dust. Refer to ACGIH publication "Industrial Ventilation" or similar publications for design of ventilation systems.				
PERSONAL PROTECTIVE EQUIPMENT				
GLOVES	Handle with Nitrile gloves. (0.11mm thickness, 480 min breakthrough time)			
EYE	Use protective goggles in high dust conditions.			
FOOTWEAR	As required on jobsite.			
CLOTHING	Wear coveralls in high dust conditions.			
RESPIRATOR	Avoid breathing dust. See instructions below			
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 (N95) 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 (N95 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 (N95 filters); 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.				

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES			
PHYSICAL STATE	solid	ODOR AND APPEARANCE	Mild tangy odor, Brown granular
VAPOR PRESSURE (mm Hg)	N/ap.	DENSITY (20 degrees Celsius)	35lb/cu. ft. +/- 5
VAPOR DENSITY (Air = 1)	N/ap.	SOLUBILITY IN WATER	Insoluble, forms
SPECIFIC GRAVITY (Water=1)	2.1		colloidal suspension
FREEZING POINT	N/ap.	pH	1.7 - 2.2
BOILING POINT	N/ap.	EVAPORATION RATE	N/ap.
SECTION X - STABILITY AND REACTIVITY			
CHEMICAL STABILITY (IF NO, UNDER WHICH CONDITIONS)	YES	X	
	NO		
INCOMPATIBILITY WITH OTHER SUBSTANCES (IF YES, SPECIFY)	YES	X	Hydrofluoric acid, oxidizing & reducing agents, bases, nitrates
	NO		
REACTIVITY, AND UNDER WHAT CONDITIONS	N/ap.		
HAZARDOUS DECOMPOSITION PRODUCTS	Under fire conditions - Carbon Oxides		
CONDITIONS TO AVOID	None in Designed Use		
SECTION XI - TOXICOLOGICAL INFORMATION			
PRIMARY ENTRY ROUTE(S):			
Eyes:	Can cause irritation or inflammation.		
Skin:	May cause dryness and allergic reactions with continued exposure.		
Ingestion:	May be harmful if swallowed.		
Inhalation:	Persistent dry cough, throat irritation and labored breathing on exertion are symptomatic of exposure to airborne dust. Exposure may aggravate existing upper respiratory tract diseases such as asthma, bronchitis or emphysema. Acute (short term) exposure to dust levels exceeding the PEL may cause irritation of respiratory tract resulting in a dry cough. Eyes may develop redness and become itchy. Chronic (long term) exposure to crystalline silica contained by airborne diatomaceous earth, where levels are higher than TLV's, may lead to the development of silicosis, other respiratory problems, or some forms of cancer. From the International Agency for Research on Cancer (IARC), in a 2012 review of SILICA DUST, CRYSTALLINE, IN THE FORM OF QUARTZ OR CRISTOBALITE (monograph 100C) concluded that "Crystalline Silica in the form of quartz or cristobalite dust is <i>carcinogenic to humans</i> (group 1)." The NTP (National Toxicology Program) has determined that "Respirable crystalline silica, primarily quartz dust occurring in industrial and occupational settings , is known to be a human carcinogen."		
SECTION XII - ECOLOGICAL INFORMATION			
No data available on persistence, degradability, bioaccumulation, soil mobility, or other adverse effects. Used product that has become contaminated may have significantly different characteristics than uncontaminated product, and should be re-evaluated accordingly. Dispose of in accordance with Local, State, and Federal regulations.			
SECTION XIII - DISPOSAL CONSIDERATIONS			
Uncontaminated waste is not hazardous as defined by the Resource Conservation and Recovery Act (RCRA, 40 CFR261). Contaminated waste must be evaluated based on contamination source. Consult local agencies as needed. Dispose of in accordance with Local, State, and Federal regulations.			

SECTION XIV - TRANSPORTATION INFORMATION		
DOT Shipping Name: Not Regulated by DOT		Canada TDG: Not Regulated by TDG
DOT Hazard Class: n/a		Hazard Class: n/a
Identification #: n/a		UN #: n/a
SECTION XV - REGULATORY INFORMATION		
OSHA: This material is considered hazardous. See section 11.		WHMIS: D2B - toxic material causing other toxic effect - moderate eye irritant
EINECS: Not Listed		CND DSL: This product is listed on the DSL
TSCA: This material is listed in the TSCA inventory and is not otherwise regulated by TSCA sec 4,5,6,7, or 12		NTP: "Respirable crystalline silica, primarily quartz dust occurring in industrial and occupational settings, is know to be a human carcinogen."
Calif Prop 65: Listed: Crystalline Silica (airborne particles of respirable size)		RCRA: This material is not defined as hazardous waste
SECTION XVI - OTHER INFORMATION		
PREPARED BY: Quality Control Staff, Absorbent Products Ltd.	PHONE NUMBER: 1-800-667-0336	DATE: June, 2015
<p>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.</p>		