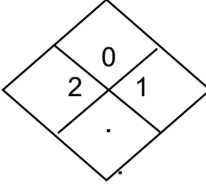




Abbreviations used on this Safety Data Sheet:
 N/av. = Not available, N/ap. = Not applicable, ppm = parts per million, TLV = Threshold Limit Value.
 NFPA Hazard Rating: 4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-None, X-Blank

SECTION I - IDENTIFICATION OF THE MATERIAL AND SUPPLIER

PRODUCT NAME	Activated Barn Fresh		4 - extreme 3 - high 2 - moderate 1 - slight 0 - insignificant
OTHER NAMES			
MATERIAL USE:	Animal Litter Amendment, Odour Control	NFPA HAZARD RATING:	
MANUFACTURER'S NAME	Progressive Planet Products Inc.	Health - 2, Flammability - 0, Reactivity - 1	
STREET ADDRESS	724 East Sarcee St.	 	
CITY/PROVINCE	Kamloops, BC		
POSTAL CODE	V2H 1E7		
EMERGENCY TELEPHONE NUMBER:	1-800-667-0336		
		US Patent No.: US 11,089,760 B2	

SECTION II - HAZARD IDENTIFICATION

This product is labelled in accordance with regulations administered by the Consumer Product Safety Commission. The typical use pattern and exposure in the workplace is generally not the same as what is experienced by consumers. The requirements of the Globally Harmonized System of Classification and Labelling of Chemicals applicable to this SDS differ from the labelling requirements of the Consumer Product Safety Commission and, as a result, this SDS may contain additional health hazard information not pertinent to consumer use and not found on the consumer product label.

GHS Classification Substance or Mixture

Carcinogenicity	Category 1A - H350i
Specific Target Organ Toxicity - (Repeated Exposure)	Category 1 - H372
Eye Irritant	Category 2A

Label Elements:

Hazard Pictogram



Signal Word: Danger

Hazard Statements:

- H319 - Causes serious eye irritation
- H350i - May cause cancer by inhalation.
- H372 - May cause damage to organs through prolonged or repeated exposure if inhaled.

Precautionary Statements:

- P201 - Obtain special instructions before use.
- P202 - Do not handle until all safety precautions have been read and understood.
- P260 - Do not breathe dust.
- P264 - Wash face, hands and any exposed skin thoroughly after handling.
- P270 - Do not eat, drink or smoke when using this product.
- P280 - Wear protective gloves/protective clothing/eye protection/face protection
- P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
- P308 + P313 - IF exposed or concerned: Get medical advice/attention.
- P314 - Get medical attention/advice if you feel unwell.
- P337+P313 - IF eye irritation persists: Get medical advice/attention.
- P405 - Store in a safe, secure location.
- P501 - Dispose of contents/container in accordance with local regulations.

SUMMARY: Prolonged and repeated exposure to excessive concentrations of this product's dust containing respirable size ($\leq 10 \mu$) quartz, or any nuisance dust, can cause chronic pulmonary disease. Dust contact with eyes may cause temporary scratchiness or redness. Long term exposure can cause silicosis. The NTP (National Toxicology Program) and IARC (International Agency for Research on Cancer) has determined that crystalline silica inhaled from occupational sources can cause cancer in humans. Risk of injury is dependent on the duration and level of exposure. **A single exposure under normal conditions will not result in serious adverse effects.** Citric acid has been classified as an eye irritant. It is considered 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)	70%	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	30%	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: (for airborne, nuisance dusts)	OSHA PEL 8 hr TWA	ACGIH TLV	OHS 8 hr TWA	OHS STEL
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)	0.05 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 0.05mg/m³ or the ACGIH Threshold Limit Value (TLV) of 0.025mg/m³, 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	Safety glasses with side-shields.		
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 colloidal suspension
SPECIFIC GRAVITY (Water=1)	2.1	pH	2.5-3.5
FREEZING POINT	N/ap.	EVAPORATION RATE	N/ap.
BOILING POINT	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 carcinogenic to humans (group 1)." The NTP (National Toxicology Program) has determined that "Respirable crystalline silica, primarily quartz dust occurring in industrial and occupational settings, is know to be a human carcinogen."		
SECTION XII - ECOLOGICAL INFORMATION			
No data available on persistence, degradability, bioaccumulation, soil mobility, or other adverse affects. 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.	GHS: Serious eye damage/eye irritation - Category 2		
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, Progressive Planet Products Inc.

PHONE NUMBER

1-800-667-0336

DATE

January, 2024

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 Progressive Planet Products Inc., as to the information, or as to the safety, toxicity or the effect of this product.