




# Material Safety Data Sheet

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<b>Section I. Chemical Product and Company Identification</b>			
<b>Product Name/ Trade Name</b>	<b>PYRAX® ABB</b>	<b>Code</b>	32805
		<b>CAS#</b>	12269-78-2
<b>Supplier</b>	R. T. Vanderbilt Company, Inc. 30 Winfield Street Norwalk, CT 06855	<b>In case of Emergency</b>	(203) 853-1400
		<b>Synonym</b> Pyrophyllite	
<b>Chemical Name</b>	Hydrated aluminum silicate mineral.	<b>Protective Clothing</b> 	
<b>Chemical Family</b>	Phyllosilicates (structural).		
<b>Manufacturer</b>	R. T. Vanderbilt Company, Inc. 30 Winfield Street Norwalk, CT 06855	<b>Material Uses</b>	Additive/filler ceramics, paint, etc.

<b>Section II. Composition and Information on Ingredients</b>			
Name	CAS #	% by Weight	TLV/PEL
1) quartz	14808-60-7	50-60	OSHA PEL: TWA respirable fraction formula: 10 mg/m <sup>3</sup> / % SiO <sub>2</sub> +2 ACGIH: TWA 0.1 mg/m <sup>3</sup> from respirable fraction TWA 3 mg/m <sup>3</sup> from respirable fraction (OSHA) TWA 5 mg/m <sup>3</sup> from respirable fraction (OSHA) As particles not otherwise regulated (PNOR).
2) mica	12001-26-2	18-25	
3) kaolin clay	1332-58-7	1-5	
4) pyrophyllite	12269-78-2	<40	
Total Product			TWA: 15 mg/m <sup>3</sup> total dust 5 mg/m <sup>3</sup> respirable dust (OSHA)  As particles not otherwise regulated (PNOR).

<b>Section III. Hazards Identification</b>	
<b>Emergency Overview</b>	Not an acute hazard. Contains quartz. May cause mechanical eye or skin irritation in high concentrations. As with all mineral spills, minimize dusting during clean-up. Do not breathe dust. Prolonged inhalation may cause lung injury. Product can become slippery when wet.
<b>Target Organs</b>	Pulmonary System (chronic risk).

**Section IV. First Aid Measures**

<b>Eye Contact</b>	Flush with plenty of flowing water. Get medical attention if irritation persists.
<b>Skin Contact</b>	Wash off with water.
<b>Inhalation</b>	Allow the victim to rest in a well ventilated area if high concentration is inhaled and mechanical irritation or discomfort occurs. Seek medical attention if irritation persists.
<b>Ingestion</b>	Unlikely to be toxic by ingestion.

**Section V. Fire and Explosion Data**

<b>Flammability of the Product</b>	Non-flammable.
<b>Auto-Ignition Temperature</b>	Not applicable.
<b>Flash Points</b>	Not applicable.
<b>Flammable Limits</b>	Not applicable.
<b>Products of Combustion</b>	Not available.
<b>Fire Hazards in Presence of Various Substances</b>	Not applicable.
<b>Explosion Hazards in Presence of Various Substances</b>	None
<b>Fire Fighting Media and Instructions</b>	Not applicable.
<b>Special Remarks on Fire Hazards</b>	No additional remark.
<b>Special Remarks on Explosion Hazards</b>	No additional remark.

**Section VI. Accidental Release Measures**

<b>Small Spill</b>	Put spilled solid in a waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and state regulations.
<b>Large Spill</b>	Use a shovel to put the material into a proper waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and state regulations. Be careful that the product is not present at a concentration level above TLV. Check Section XIII for disposal information.

**Section VII. Handling and Storage**

<b>Handling and Storage Procedures</b>	No special storage considerations. Handle in ways which minimize dust generation.
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**Section VIII. Exposure Controls/Personal Protection**

<b>Engineering Controls</b>	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, use ventilation to keep exposure to airborne contaminants below the exposure limit.  If local exhaust ventilation is used, a capture velocity of 150-200 fpm is recommended.
<b>Personal Protection</b>	Safety glasses. Any NIOSH approved filter dust respirator. No special skin protection is required. Wash skin if mechanical irritation is experienced.

**Section IX. Physical and Chemical Properties**

<b>Appearance</b>	Solid. (Powdered solid.)
<b>Molecular Weight</b>	Not available.
<b>pH (1% soln/water)</b>	Not applicable.
<b>Melting/ Sublimation Point</b>	Not available.
<b>Specific Gravity</b>	2.8 (Water = 1)
<b>Volatility</b>	0% (v/v).
<b>Odor</b>	None.
<b>Solubility</b>	Insoluble in cold water.

**Section X. Stability and Reactivity Data**

<b>Stability</b>	The product is stable.
<b>Instability Temperature</b>	Not available.
<b>Conditions of Instability</b>	Not available.
<b>Incompatibility with Various Substances</b>	Not considered to be reactive.
<b>Corrosivity</b>	Not available.

**Section XI. Toxicological Information**


<b>Routes of Entry</b>	Inhalation. Ingestion.
<b>Acute Effects</b>	
<b>Eye contact</b>	Not a primary eye irritant. Dust may cause mechanical irritation.
<b>Skin contact</b>	Mechanical skin irritation is possible but unlikely. Not absorbed through skin. Possible granuloma formation in open wounds (requires repeated, massive applications).
<b>Sensitization</b>	Not a sensitizer.

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<b>Ingestion</b>	This material is not expected to be an ingestion hazard based on animal testing.
<b>Inhalation</b>	Inhalation of high concentrations may cause mechanical irritation and discomfort. Repeated exposure may cause chronic effects.
<b>Remark</b>	No additional remark.
<b>Chronic Effects</b>	<p><b>CARCINOGENIC EFFECTS:</b> See remarks.  <b>MUTAGENIC EFFECTS:</b> Not available.  <b>DEVELOPMENTAL TOXICITY:</b> Not available.  <b>REPRODUCTIVE TOXICITY:</b> Not available.</p>
<b>Remarks</b>	<p><b>PYROPHYLLITE:</b> Sparse literature specifically addressing pyrophyllite dust exposures are complicated by concurrent silica exposures. Absent free silica, a low category pneumoconiosis with little respiratory disability is probable in prolonged, high duct concentrations.</p> <p><b>KAOLIN:</b> Published literature suggests that extremely high exposures to kaolin dust over a prolonged period of time can lead to a low category pneumoconiosis (with little respiratory disability) in a small number of workers.</p> <p><b>CRYSTALLINE SILICA:</b> Overexposure to respirable crystalline silica dust can cause silicosis, a form of progressive pulmonary fibrosis. "Inhalable" crystalline silica (quartz) is listed by IARC as a Group I carcinogen (lung) based on "sufficient evidence" in occupationally exposed humans and sufficient evidence in animals. Crystalline silica is also listed by the NTP as a known human carcinogen. Some studies have not demonstrated a cancer association and considerable controversy exists concerning the IARC and NTP classification.</p> <p>Excessive exposure to any dust may aggravate pre-existing respiratory conditions. Repeated or prolonged exposure to the substance can produce damage to the lungs.</p>

<b>Section XII. Ecological Information</b>	
<b>Ecotoxicity</b>	None known.
<b>BOD5 and COD</b>	Not available.
<b>Products of Biodegradation</b>	None known.
<b>Toxicity of the Products of Biodegradation</b>	None known.
<b>Special Remarks on the Products of Biodegradation</b>	No additional remark.

<b>Section XIII. Disposal Considerations</b>	
<b>Waste Information</b>	Not a US RCRA hazardous waste. Dispose of in accordance with state and local regulations.

<b>Section XIV. Transport Information</b>	
<b>DOT</b>	Not a DOT controlled material (United States).
	

Not applicable.

**Maritime Transportation**

Not available.

**Section XV. Other Regulatory Information and Pictograms**

**TSCA** Listed.

**Federal and State Regulations**

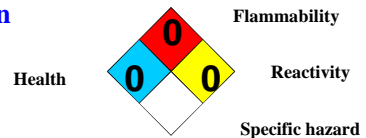
OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).  
 California Prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute:  
 quartz  
 Pennsylvania RTK: quartz: (generic environmental hazard)  
 Florida: quartz  
 Minnesota: quartz  
 Massachusetts RTK: quartz  
 New Jersey: quartz  
 TSCA 8(b) inventory: PYRAX® ABB  
 SARA 302/304/311/312 hazardous chemicals: quartz  
 SARA 311/312 MSDS distribution - chemical inventory - hazard identification: quartz: immediate health hazard, delayed health hazard

**Hazardous Material Information System (U.S.A.)**

Health Hazard	*	0
Fire Hazard		0
Reactivity		0
Personal Protection		a

\* Chronic Potential

**National Fire Protection Association (U.S.A.)**



**Protective Clothing (Pictograms)**



**Section XVI. Other Information**

**References** Not available.

**Other Special Considerations** Not available.

Validated by Sue Kelly on 5/18/2000.

Verified by Sue Kelly.

Printed 5/18/2000.

**Information Contact** John Kelse (203) 853-1400 ext. 217  
 Corporate Risk Management

**Notice to Reader**

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