

Material Safety Data Sheet

minusa English

1. Product and company identification

Product name PYRAX® HS

Supplier/Manufacturer Vanderbilt Minerals, LLC

30 Winfield Street Call: 1-203-295-2140

Norwalk, CT 06855 Chemtrec: 1-800-424-9300

Pyrophyllite Outside US: +1-703-527-3887

Chemical Name Hydrated aluminum silicate mineral

Material uses Additive/filler ceramics, paint, etc.

RTV Material # 33207

Synonym

2. Hazards identification

Emergency Overview WARNING! Cancer Hazard. Contains quartz which can cause cancer. Risk of cancer

depends upon duration and level of exposure. Not an acute hazard. May cause mechanical eye or skin irritation in high concentrations. Prolonged inhalation may cause

lung injury.

Routes of Entry Ingestion. Inhalation.

Potential acute health effects

Inhalation Inhalation of high concentrations may cause mechanical irritation and discomfort. Repeated

exposure may cause chronic effects.

Ingestion Not an ingestion hazard.

Skin Possible mechanical skin irritation. Not absorbed through skin. Possible granuloma

formation in open wounds (requires repeated, massive applications).

Eyes May cause mechanical irritation.

Remarks No additional remark.

Potential chronic health effects

Target organs Pulmonary System (chronic risk).

See toxicological information (Section 11)

3. Composition/information on ingredients

Name_	CAS number	% by weight	TLV/PEL
quartz	14808-60-7	50 - 60	OSHA PEL (United States). TWA respirable fraction formula: 10 mg/m³/ % SiO ₂ +2 ACGIH TLV (United States). TWA 0.025 mg/m³ from respirable fraction
pyrophyllite	12269-78-2	<40	OSHA PEL (United States). TWA: 15 mg/m³ total dust; 5 mg/m³ respirable dust (PNOR) ACGIH TLV (United States). TWA: 10 mg/m³ total dust; 3 mg/m³ respirable dust (PNOS)
mica	12001-26-2	18 - 25	OSHA PEL (United States). TWA 3 mg/m³ from respirable fraction ACGIH TLV (United States). TWA 3 mg/m³ from respirable fraction

4. First aid measures

Eye contact Flush with plenty of water for at least 15 minutes, occasionally lifting the upper and lower

eyelids.

Skin contact Wash off with water.

Inhalation 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.

Ingestion Unlikely to be toxic by ingestion.

5. Fire-fighting measures

Flammability of the product Non-flammable.

Flash point Not applicable.

Auto-ignition temperature Not applicable.

Flammable limits Not applicable.

Hazardous combustion

products

substances

Fire hazards in the presence of various

Not considered to be flammable. Product will not burn, use appropriate extinguishing media

for surrounding fires.

Not applicable.

6. Accidental release measures

Small spill Use a vacuum to clean up spillage. If appropriate, use gentle water spray to wet down and

minimize dust generation. Place in a sealed container. Material will become slippery when

wet.

Large spill Use a shovel to put the material into a convenient waste disposal container. Finish cleaning

by spreading water on the contaminant surface and dispose of according to local and

regional authority requirements. Avoid excessive dust generation. Use respiratory protection

in high dust condition.

7. Handling and storage

Handling and storage

Avoid generating dust. Use respiratory protection in the absence of adequate engineering controls. Keep containers closed when not in use. Clean up spills promptly (see spill procedure). No special storage considerations. Handle in ways which minimize dust generation.

8. Exposure controls/personal protection

airborne levels below established levels below recommended exposure limits. If user operations generate dust, use ventilation to keep exposure to airborne contaiminants

below the exposure limit.

If local exhaust ventilation is used, a capture velocity of 150-200 fpm is recommended.

Personal protection Splash goggles. Dust respirator. Be sure to use a MSHA/NIOSH approved respirator or

equivalent. No special skin protection should be required. However, if irritation is

experienced, use gloves and/or other skin covering.

Personal protective equipment (Pictograms)

8. Exposure controls/personal protection



9. Physical and chemical properties

Physical state Solid. [Powdered solid.]

Color White to tan.

Odor None known.

Molecular weight Not applicable.

pH 6.9 [Conc. (% w/w): 10%]

Boiling/condensation point Not available.

Melting/freezing point Not available.

Specific gravity

Vapor pressureNot available.Vapor densityNot available.Volatility0% (v/v)Evaporation rateNot available.Dispersibility propertiesNot available.

Solubility Insoluble in the following materials: cold water.

10 . Stability and reactivity

Stability The product is stable.

Instability temperature Not applicable.

Conditions of instability Not available.

Incompatibility with various

substances

No incompatible product according to our database.

Corrosivity Not available.

11. Toxicological information

Acute effects

See Hazards Identification (section 2)

Chronic effects

Carcinogenic effects See summary below.

Mutagenic effectsNone known.Teratogenic effectsNone known.Developmental toxicityNone known.

Conclusion/Summary PYROPHYLLITE: In the absence of crystalline silica, pyrophyllite can cause a low category pneumoconiosis (with little respiratory disability) in prolonged, high dust

concentrations.

KAOLIN: 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.

CRYSTALLINE SILICA: 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 controversy exists concerning the IARC and NTP

11. Toxicological information

classification.

Excessive exposure to any dust may aggravate pre-existing respiratory conditions.

Classification

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
quartz	A2	1	-	+	Proven.	-
kaolin clay	A4	_	_	_	_	_

12. Ecological information

Ecotoxicity

None known.

Products of

None known

biodegradation

Toxicity of the products of biodegradation

biodegradation

None known.

Special remarks on the products of

Not available.

13. Disposal considerations

Waste information

Not a US RCRA hazardous waste. Dispose of in accordance with state and local regulations.

14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	Not regulated.	-	-	-		-
TDG Classification	Not regulated.	-	-	-		-
ADR/RID Class	Not regulated.	-	-	-		-
IMDG Class	Not regulated.	-	-	-		-
IATA-DGR Class	Not regulated.	-	-	-		-

PG*: Packing group

15. Regulatory information

United States

OSHA/HCS status

This material is considered hazardous by the OSHA Hazard Communication Standard

(29 CFR 1910.1200).

U.S. Federal regulations

United States inventory (TSCA 8b): All components are listed or exempted.

SARA 302/304/311/312 hazardous chemicals: Quartz (SiO2); MICA; KAOLIN

SARA 311/312 MSDS distribution - chemical inventory - hazard identification:

Quartz (SiO2): Immediate (acute) health hazard, Delayed (chronic) health hazard; MICA:

The following components are listed: SILICA, CRYSTALLINE, QUARTZ; MICA; KAOLIN

Immediate (acute) health hazard; KAOLIN: Delayed (chronic) health hazard

State regulations

Massachusetts Substances Minnesota Hazardous

The following components are listed: KAOLIN

Substances

New Jersey Hazardous The following components are listed: SILICA, QUARTZ; MICA

Substances

4/5

PYRAX® HS

15. Regulatory information

Pennsylvania RTK Hazardous Substances The following components are listed: QUARTZ (SIO2); KAOLIN

California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

<u>Ingredient name</u> <u>Cancer</u> <u>Reproductive</u> <u>No significant risk level</u> <u>Maximum acceptable dosage level</u>

quartz Yes. No. No. No.

<u>Canada inventory</u> All components are listed or exempted. <u>Europe inventory</u> All components are listed or exempted.

International lists Australia inventory (AICS): All components are listed or exempted.

China inventory (IECSC): All components are listed or exempted.

Japan inventory: All components are listed or exempted. **Korea inventory**: All components are listed or exempted.

New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.

Philippines inventory (PICCS): All components are listed or exempted.

16. Other information

Other special considerations

Airborne sampling for respirable quartz during mining, processing and bagging of this product routinely reflects concentrations ranging from below detection limit to 0.1 mg/m³ over an 8 hour work shift. Levels at and below 0.05 mg/m3 are typical. Use of this product is unlikely to produce respirable quartz concentrations above these levels.

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

Health * 1
Flammability 0
Physical hazards 0

Ε

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



* Chronic Potential

Personal protection

The customer is responsible for determining the PPE code for this material.

Date of printing 12/21/2012. **Date of issue** 1/1/2013.

Date of previous issue No previous validation.

Information contact Corporate Risk Management

1-203-295-2143

Indicates information that has changed from previously issued version.

Visit www.vanderbiltminerals.com for more information.

Notice to reader

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