

# Material Safety Data Sheet

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 English

## 1 . Product and company identification

<b>Product name</b>	VANSIL® W-10	<b>Code</b>	59251
<b>Supplier/Manufacturer</b>	Vanderbilt Minerals, LLC 30 Winfield Street Norwalk, CT 06855	<b><u>In case of emergency</u></b> 1-203-295-2140 <small>Chemtrec: 1-800-424-9300 Outside US: +1-703-527-3887</small>	
<b>Synonym</b>	Wollastonite		
<b>Chemical Name</b>	Calcium silicate mineral (calcium metasilicate)		
<b>Material uses</b>	Ceramic additive		

## 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

<u>Name</u>	<u>CAS number</u>	<u>% by weight</u>	<u>TLV/PEL</u>
wollastonite	13983-17-0	<99	<b>ACGIH TLV (United States).</b> TWA: 10 mg/m <sup>3</sup> total dust; 3 mg/m <sup>3</sup> respirable dust (PNOS)
quartz	14808-60-7	0.8 - 1.3	<b>ACGIH TLV (United States).</b> TWA 0.025 mg/m <sup>3</sup> 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

<b>Flammability of the product</b>	Non-flammable.
<b>Flash point</b>	Not applicable.
<b>Auto-ignition temperature</b>	Not applicable.
<b>Flammable limits</b>	Not applicable.
<b>Hazardous combustion products</b>	Not applicable.
<b>Fire hazards in the presence of various substances</b>	Not considered to be flammable. Product will not burn, use appropriate extinguishing media for surrounding fires.

## 6 . Accidental release measures

<b>Small spill</b>	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.
<b>Large spill</b>	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

<b>Handling and storage</b>	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.
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## 8 . Exposure controls/personal protection

<b>Engineering measures</b>	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below established 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>	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.

### Protective clothing



## 9 . Physical and chemical properties

<b>Physical state</b>	Solid. [Powder]
<b>Color</b>	White.
<b>Odor</b>	None known.
<b>Molecular weight</b>	Not applicable.
<b>pH</b>	10 [Conc. (% w/w): 10%]
<b>Boiling/condensation point</b>	Not available.
<b>Melting/freezing point</b>	Not available.
<b>Specific gravity</b>	
<b>Vapor pressure</b>	Not available.
<b>Vapor density</b>	Not available.
<b>Volatility</b>	Not available.
<b>Evaporation rate</b>	Not available.

## 9 . Physical and chemical properties

<b>Dispersibility properties</b>	Not available.
<b>Solubility</b>	Insoluble in the following materials: cold water.

## 10 . Stability and reactivity

<b>Stability</b>	The product is stable.
<b>Instability temperature</b>	Not applicable.
<b>Conditions of instability</b>	Not available.
<b>Incompatibility with various substances</b>	No incompatible product according to our database.
<b>Corrosivity</b>	Not available.

## 11 . Toxicological information

### Acute effects

See Hazards Identification (section 2)

### Chronic effects

<b>Carcinogenic effects</b>	See summary below.
<b>Mutagenic effects</b>	None known.
<b>Teratogenic effects</b>	None known.
<b>Developmental toxicity</b>	None known.
<b>Conclusion/Summary</b>	In a NIOSH medical survey of wollastonite workers "no definite association of wollastonite exposure and excess morbidity could be demonstrated". From an update of this study it was concluded that prolonged exposure to excessive wollastonite dust may affect pulmonary function.

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 1 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 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.	-

## 12 . Ecological information

<b>Ecotoxicity</b>	None known.
<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>	Not available.

## 13 . Disposal considerations

### Waste information

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

Disposal should be in accordance with applicable regional, national and local laws and 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

### Canada

**WHMIS (Canada)**

**Canada inventory**

**WHMIS (Canada)**

**(Pictograms)**

Class D-2A: Material causing other toxic effects (Very toxic).

All components are listed or exempted.



### International regulations

#### 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.

**Europe inventory:** All components are listed or exempted.

### 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 (SiO<sub>2</sub>)

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

Quartz (SiO<sub>2</sub>): Immediate (acute) health hazard, Delayed (chronic) health hazard

## 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 0.01 mg/m<sup>3</sup> over an 8 hour work shift. Levels at and below 0.01 mg/m<sup>3</sup> are typical.

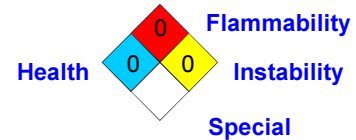
**Hazardous Material  
Information System (U.S.A.)**

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

## 16 . Other information

Health	*	1
Flammability		0
Physical hazards		0
Personal protection		E

\* Chronic Potential



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

<b>Date of printing</b>	1/18/2013.
<b>Date of issue</b>	1/1/2013.
<b>Date of previous issue</b>	No previous validation.
<b>Information contact</b>	Corporate Risk Management 1-203-295-2143

✔ Indicates information that has changed from previously issued version.

Visit [www.vanderbiltminerals.com](http://www.vanderbiltminerals.com) for more information.

### Notice to reader

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