




Material Safety Data Sheet

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Section I. Chemical Product and Company Identification			
Product Name/ Trade Name	VANSIL® W-10	Code	59251
		CAS#	See Section II
Supplier	R. T. VANDERBILT COMPANY, INCORPORATED 30 WINFIELD STREET NORWALK, CT 06855	In case of Emergency	(203) 853-1400
Synonym	Wollastonite	Protective Clothing	
Chemical name	Calcium silicate mineral (calcium metasilicate)		
Chemical Family	Inosilicate (chain silicate-structural).		
Manufacturer	R. T. Vanderbilt Company, Inc. 30 Winfield Street Norwalk, CT 06855	Material Uses	Additive in paints and plastics

Section II. Composition and Information on Ingredients			
Name	CAS #	% by Weight	TLV/PEL
wollastonite quartz	13983-17-0 14808-60-7	<99 0.8-1.1	As particles not otherwise regulated (PNOR). OSHA PEL: TWA respirable fraction formula: 10 mg/m ³ / % SiO ₂ +2 ACGIH: TWA 0.025 mg/m ³ from respirable fraction
Total Product			TWA: 15 mg/m ³ total dust 5 mg/m ³ respirable dust (OSHA) As particles not otherwise regulated (PNOR).

Section III. Hazards Identification	
Emergency Overview	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.
Target Organs	Pulmonary System (chronic risk).

Section IV. First Aid Measures	
Eye Contact	Flush with plenty of flowing water. Get medical attention if irritation persists.
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.

Section V. Fire and Explosion Data

Flammability of the Product	Non-flammable.
Autoignition Temperature	Not applicable.
Flash Point	Not applicable.
Flammable Limits	Not applicable.
Products of Combustion	Not applicable.
Fire Hazards in Presence of Various Substances	Not considered to be flammable.
Explosion Hazards in Presence of Various Substances	None.
Fire Fighting Media and Instructions	Product will not burn, use appropriate extinguishing media for surrounding fires.
Special Remarks on Fire Hazards	Not available.
Special Remarks on Explosion Hazards	Not available.

Section VI. 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.
Large Spill	Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. Avoid excessive dust generation. Use respiratory protection in high dust conditions.

Section VII. Handling and Storage

Handling and Storage Procedures	No special storage considerations. Handle in ways which minimize dust generation.
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Section VIII. Exposure Controls, Personal Protection

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

Section IX. Physical and Chemical Properties

Appearance	White powder.
Molecular Weight	Not available.
pH	Not available.
Melting/ Sublimation Point	Not available.
Specific Gravity	2.9 (Water = 1)

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Volatility	Non-volatile.
Odor	None
Solubility	Insoluble in cold water.

Section X. Stability and Reactivity Data

Stability	The product is stable.
Instability Temperature	Not applicable.
Conditions of Instability	None known.
Incompatibility with Various Substances	Non reactive.
Corrosivity	Not available.

Section XI. Toxicological Information

Routes of Entry Inhalation. Ingestion.

Acute Effects

Eye Contact	Not a primary eye irritant. May cause mechanical irritation.
Skin Contact	Because of the shape of individual wollastonite particles, minor skin irritation may result from prolonged physical contact.
Sensitization	Not a sensitizer.
Ingestion	Not an ingestion hazard.
Inhalation	Inhalation of high concentrations may cause irritation or discomfort.
Remarks	No additional remark.

Chronic Effects

CARCINOGENIC EFFECTS See remarks.
MUTAGENIC EFFECTS None known.
TERATOGENIC EFFECTS None known.
DEVELOPMENTAL TOXICITY None known.

Remarks 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 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.

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

Section XII. Ecological Information

Ecotoxicity	None known.
BOD5 and COD	Not available.
Products of Biodegradation	None known.
Toxicity of the Products of Biodegradation	None known.
Special Remarks on the Products of Biodegradation	Not available.

Section XIII. Disposal Considerations

Waste Information	Not a US RCRA hazardous waste. Dispose of in accordance with state and local regulations.
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Section XIV. Transport Information

DOT Not a DOT controlled material (United States).



Maritime transportation

Not available.

**Section XV. Regulatory Information**

TSCA Listed.

Federal and State Regulations

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: SILICA, CRYSTALLINE - QUARTZ
 Pennsylvania RTK: SILICA, CRYSTALLINE - QUARTZ: (generic environmental hazard)
 Florida: SILICA, CRYSTALLINE - QUARTZ
 Minnesota: SILICA, CRYSTALLINE - QUARTZ
 Massachusetts RTK: SILICA, CRYSTALLINE - QUARTZ
 New Jersey: SILICA, CRYSTALLINE - QUARTZ
 TSCA 8(b) inventory: Calcium silicate mineral (calcium metasilicate)
 SARA 302/304/311/312 hazardous chemicals: SILICA, CRYSTALLINE - QUARTZ
 SARA 311/312 MSDS distribution - chemical inventory - hazard identification: SILICA, CRYSTALLINE - QUARTZ: Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard
 OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

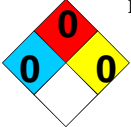
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Hazardous Material Information System (U.S.A.)

Health Hazard	*	1
Fire Hazard		0
Physical Hazard		0
Personal Protection		E

* Chronic Potential

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

Health  Flammability

Reactivity

Specific hazard

Protective Clothing (Pictograms)



Section XVI. Other Information

References Not available.

Other Special Considerations Quartz (none detected to less than 1.0% - this quartz range is "typical" and may change slightly with different lots and grades)

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Verified by Sue Kelly.

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

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