R.T. Vanderbilt Company, Inc.
INDUSTRIAL MINERALS AND CHEMICALS

Material Safety Data Sheet

minusa

Section I. Chemical Product and Company Identification

Product Name/ Trade Name	**VANTALC® F2504**	**Code**	69651
		CAS#	See Section II
Supplier	R. T. VANDERBILT COMPANY, INCORPORATED 30 WINFIELD STREET NORWALK, CT 06855	**In case of Emergency**	(203) 853-1400
Synonym	Industrial talc	**Protective Clothing**	
Chemical name	Magnesium Silicate Hydrate		
Chemical Family	Phylosilicates (structural).		
Manufacturer	R. T. Vanderbilt Company, Inc. 30 Winfield Street Norwalk, CT 06855	**Material Uses**	Paint Additive

Section II. Composition and Information on Ingredients

Name	CAS #	% by Weight	TLV/PEL
talc	14807-96-6	80 - 100	TWA 2 mg/m³ from respirable fraction (ACGIH) See Section XVI (OSHA)
chlorite-group minerals	1318-59-8	1 - 5	As particles not otherwise regulated (PNOR).
quartz	14808-60-7	0.1 - 1.0	OSHA PEL: TWA respirable fraction formula: 10 mg/m³ / % SiO_2 +2 ACGIH: TWA 0.025 mg/m³ from respirable fraction
Total Product			TWA: 15 mg/m³ total dust 5 mg/m³ 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.

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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. 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 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.

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.

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Section IX. Physical and Chemical Properties

Appearance	White powder
Molecular Weight	Not available.
pH	9.4 @ 10% (concentration)
Melting/ Sublimation Point	Not available.
Specific Gravity	2.8 (Water = 1)
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	Mechanical skin irritation is possible but unlikely. Not absorbed through skin. Possible granuloma formation in open wounds (requires repeated, massive applications).
Sensitization	Not a sensitizer.
Ingestion	Not an ingestion hazard.
Inhalation	Inhalation of high concentrations may cause mechanical irritation and discomfort. Repeated exposure may cause chronic effects.
Remarks	No additional remark.
Chronic Effects	**CARCINOGENIC EFFECTS** See remarks. **MUTAGENIC EFFECTS** None known. **TERATOGENIC EFFECTS** None known. **DEVELOPMENTAL TOXICITY** None known.

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Remarks

TALC: Prolonged exposure to excessive airborne concentrations of talc can result in scarring of the lungs (pneumoconiosis) or of the covering of the lungs (pleural thickening). Pneumoconiosis may produce symptoms of cough or shortness of breath. Pleural thickening usually produces no symptoms. Conditions can be determined by chest radiographic examination and pulmonary function test (FEV and FVC). Bronchial irritation may cause sputum production.

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.

Section XIV. Transport Information

DOT

Not a DOT controlled material (United States).

Not applicable.

Maritime transportation

Not available.

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Section XV. Regulatory Information

TSCA

Listed.

Federal and State Regulations

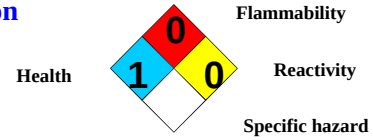
California Prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: quartz
Pennsylvania RTK: talc: (generic environmental hazard); quartz: (generic environmental hazard)
Florida: talc; quartz
Minnesota: talc; quartz
Massachusetts RTK: talc; quartz
New Jersey: talc; quartz
TSCA 8(b) inventory: VANTALC® F2504
SARA 302/304/311/312 hazardous chemicals: talc; quartz
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: talc: immediate health hazard; quartz: immediate health hazard, delayed health hazard
OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

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.)



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.)

Numerous samples for airborne concentrations of free silica during talc processing consistently reflect free silica levels in the <0.05 mg/m3 range (if detected at all).

Talc PEL: The current OSHA PEL remains 20 mppfc. Due to antiquated particle counting technique, the gravimetric (ACGIH) limit is recommended.

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

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